# Astronomisches Jahrbuch

für

# 1911.

Der Sammlung Berliner astronomischer Jahrbücher
einhundert und sechsunddreifsigster Band.

Berliner

# Astronomisches Jahrbuch

für

# 1911

mit Angaben für die Oppositionen
der Planeten (1) — (635)

für

1909.

Herausgegeben
von dem

Königlichen Astronomischen Recheninstitut

unter Leitung von

**J. Bauschinger.**



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(Kommissionsverlag)
1909.

**Königliches Astronomisches Recheninstitut zur Herausgabe des Berliner Jahrbuchs in Berlin SW. 68, Lindenstr. 91.**

| | |
|---|---|
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# Inhalt.

# Berichtigungen.

## Jahrbuch 1910.

| | | | |
|---|---|---|---|
| Seite 169 | Nr. 728 | Jährl. Veränd. in Dekl. lies | $+6''.545$ anstatt $+6.575$. |
| 170 | » 759 | Jährl. Veränd. in AR. lies | $-1^s.9580$ anstatt $+1^s.9580$. |

Die in den Jahrbüchern 1908, 1909 und 1910 gegebenen Ephemeriden des Sterns 611 $\gamma$ Apodis bedürfen einer Verbesserung in AR. Die so berichtigten Ephemeriden sind auf dem beiliegenden Blatt noch einmal vollständig abgedruckt.

# Vorwort.

Nach den Beschlüssen der Pariser Konferenz vom Mai 1896 (*Conférence internationale des étoiles fondamentales. Procès-Verbaux. Paris 1896*) sind im Jahrbuch vom Jahrgang 1901 an durchweg eingeführt:

die Präzessions-Gröfsen nach S. Newcomb (*Astr. Papers Vol. VIII. Part I*),

die Nutations-Konstante 9″.21,

die Aberrations-Konstante 20″.47,

die Sonnen-Parallaxe 8″.80;

ferner sind in allen Ephemeriden der Sonne, der Planeten und der Fixsterne die kurzperiodischen, von der Mondlänge abhängigen Nutationsglieder weggelassen; ausgenommen von dieser allgemeinen Regel sind nur die Ephemeriden der Polsterne, die von Tag zu Tag fortschreiten; in diesen ist wohl das allen Sternen gemeinsame Nutationsglied $f'' = -0''.1865 \sin 2☾ + 0''.0618 \sin (☾ - \Gamma')$ weggelassen, die übrigen mit der Tangente der Dekl. multiplizierten Glieder sind jedoch beibehalten. Das Jahrbuch gibt übrigens die Mittel an die Hand, die weggelassenen Glieder nachträglich anzubringen, worüber die »Erläuterungen« einzusehen sind.

Die mittleren Örter der 925 Sterne des neuen Auwersschen Fundamentkalataloges sind nach der Bearbeitung desselben von Dr. J. Peters (Veröffentlichungen des K. Astronomischen Recheninstituts Nr. 33) berechnet worden.

Ausführliche Ephemeriden der scheinbaren Örter werden für 573 Sterne geboten, darunter 18 von Tag zu Tag fortschreitende der eigentlichen Polsterne.

Den angegebenen Eigenbewegungen liegt die Newcombsche Präzessions-Konstante zu Grunde.

Für die Planeten sind folgende Tafeln benutzt worden:

Sonne: Tafeln von Newcomb,
Merkur: Tafeln von Newcomb,
Venus: Tafeln von Newcomb,
Mars: Tafeln von Newcomb,
Jupiter: Tafeln von Hill,
Saturn: Tafeln von Hill,
Uranus: Tafeln von Newcomb,
Neptun: Tafeln von Newcomb.

Die Schiefe der Ekliptik ist nach Newcomb angenommen.

Für den Halbmesser der Sonne ist die bisherige Konstante nach Auwers (15′ 59″.63) beibehalten, für den Halbmesser des Mondes ist sowohl in der Ephemeride (S. 42 — 81) als bei der Berechnung der Finsternisse und Sternbedeckungen der von J. Peters ermittelte Wert 15′ 32″.59, entsprechend der Parallaxe 57′ 2″.27, benutzt (A. N. Nr. 3297).

Die Neigung des Mondäquators gegen die Ekliptik ist nach F. Hayn (Selenographische Koordinaten) angenommen.

Als Vergröfserungsfaktor für den Erdschatten bei Mondfinsternissen ist nach J. Hartmann $\frac{1}{50}$ angenommen worden.

# Zeit- und Festrechnung 1911.

Das Jahr 1911 entspricht dem
Jahr 6624 der Julianischen Periode und dem
Jahr 7419 — 7420 der Byzantinischen Äre.

| | Gregorianischer oder Neuer Kalender. | Julianischer oder Alter Kalender. |
|---|---|---|
| Goldene Zahl | 12 | 12 |
| Epakten | XXX | XII |
| Sonnenzirkel | 16 | 16 |
| Römer Zinszahl | 9 | 9 |
| Sonntagsbuchstab | A | B |
| Septuagesima | Febr. 12 | Febr. 6 |
| Aschermittwoch | März 1 | Febr. 23 |
| I. Quatember | März 8 | März 2 |
| Ostersonntag | April 16 | April 10 |
| Himmelfahrt | Mai 25 | Mai 19 |
| Pfingstsonntag | Juni 4 | Mai 29 |
| II. Quatember | Juni 7 | Juni 1 |
| III. Quatember | Sept. 20 | Sept. 21 |
| I. Advent | Dez. 3 | Nov. 27 |
| IV. Quatember | Dez. 20 | Dez. 14 |

## Kalender der Mohammedaner.

| | | |
|---|---|---|
| 1329 (Gemeinjahr) | | |
| Moharrem 1 | 1911 | Jan. 2 |
| Safar 1 | » | Febr. 1 |
| Rebî-el-awwel 1 | » | März 2 |
| Rebî-el-accher 1 | » | April 1 |
| Dschemâdi-el-awwel 1 | » | April 30 |
| Dschemâdi-el-accher 1 | » | Mai 30 |
| Redscheb 1 | » | Juni 28 |
| Schabân 1 | » | Juli 28 |
| Ramadân 1 | » | Aug. 26 |
| Schewwâl 1 | » | Sept. 25 |
| Dsû 'l-kade 1 | » | Okt. 24 |
| Dsû 'l-hedsche 1 | » | Nov. 23 |
| 1330 (Schaltjahr) | | |
| Moharrem 1 | | Dez. 22 |

# Kalender der Juden.

| | | | | | | |
|---|---|---|---|---|---|---|
| 5671 | Tebet | 1 | . . . . . . . . . . . . . . . | 1911 | Jan. | 1 |
| | | 10 | Fasten. Belagerung Jerusalems . . | » | | 10 |
| | Schebat | 1 | . . . . . . . . . . . . . . . | » | | 30 |
| | Adar | 1 | . . . . . . . . . . . . . . . | » | März | 1 |
| | | 13 | Fasten-Esther . . . . . . . . | » | | 13 |
| | | 14 | Purim . . . . . . . . . . . . | » | | 14 |
| | | 15 | Schuschan-Purim . . . . . . . | » | | 15 |
| | Nisan | 1 | . . . . . . . . . . . . . . . | » | | 30 |
| | | 15 | Passah-Anfang* . . . . . . . . | » | April | 13 |
| | | 16 | Zweites Fest* . . . . . . . . | » | | 14 |
| | | 21 | Siebentes Fest* . . . . . . . . | » | | 19 |
| | | 22 | Achtes Fest* . . . . . . . . | » | | 20 |
| | Ijar | 1 | . . . . . . . . . . . . . . . | » | | 29 |
| | | 18 | Lag-B'omer . . . . . . . . . | » | Mai | 16 |
| | Sivan | 1 | . . . . . . . . . . . . . . . | » | | 28 |
| | | 6 | Wochenfest* . . . . . . . . . | » | Juni | 2 |
| | | 7 | Zweites Fest* . . . . . . . . | » | | 3 |
| | Thamuz | 1 | . . . . . . . . . . . . . . . | » | | 27 |
| | | 17 | Fasten. Tempeleroberung . . . . | » | Juli | 13 |
| | Ab | 1 | . . . . . . . . . . . . . . . | » | | 26 |
| | | 9 | Fasten. Tempelverbrennung . . . | » | Aug. | 3 |
| | Elul | 1 | . . . . . . . . . . . . . . . | » | | 25 |
| 5672 (Überzähliges Gemeinjahr) | | | | | | |
| | Tischri | 1 | Neujahrsfest* . . . . . . . . | » | Sept. | 23 |
| | | 2 | Zweites Fest* . . . . . . . . | » | | 24 |
| | | 3 | Fasten-Gedaljah . . . . . . . | » | | 25 |
| | | 10 | Versöhnungsfest* . . . . . . . | » | Okt. | 2 |
| | | 15 | Laubhüttenfest* . . . . . . . . | » | | 7 |
| | | 16 | Zweites Fest* . . . . . . . . | » | | 8 |
| | | 21 | Palmenfest . . . . . . . . . | » | | 13 |
| | | 22 | Versammlung oder Laubhüttenende* . | » | | 14 |
| | | 23 | Gesetzesfreude* . . . . . . . . | » | | 15 |
| | Marcheschwan | 1 | . . . . . . . . . . . . . . . | » | | 23 |
| | Kislev | 1 | . . . . . . . . . . . . . . . | » | Nov. | 22 |
| | | 25 | Tempelweihe . . . . . . . . . | » | Dez. | 16 |
| | Tebet | 1 | . . . . . . . . . . . . . . . | » | | 22 |
| | | 10 | Fasten. Belagerung Jerusalems . . | » | | 31 |
| | Schebat | 1 | . . . . . . . . . . . . . . . | 1912 | Jan. | 20 |

Die mit * bezeichneten Festtage werden streng gefeiert.

| 1911 | Schiefe der Ekliptik mittlere | Schiefe der Ekliptik wahre | Präzession in Länge | Nutation in Länge | Aberration der Sonne | Parallaxe der Sonne |
|---|---|---|---|---|---|---|
| | 23° | | | | | |
| Jan. 0 | 27′ 3″.11 | 27′ 8″.92 | − 0″.14 | −11″.89 | 20″.82 | 8″.95 |
| 10 | 3.09 | 9.06 | + 1.24 | 11.36 | 20.82 | 8.95 |
| 20 | 3.08 | 9.26 | 2.61 | 10.93 | 20.80 | 8.94 |
| 30 | 3.07 | 9.49 | 3.98 | 10.63 | 20.78 | 8.93 |
| Febr. 9 | 3.06 | 9.73 | 5.36 | 10.48 | 20.75 | 8.92 |
| 19 | 27 3.04 | 27 9.95 | + 6.74 | −10.50 | 20.70 | 8.90 |
| März 1 | 3.03 | 10.15 | 8.12 | 10.65 | 20.65 | 8.88 |
| 11 | 3.02 | 10.29 | 9.49 | 10.91 | 20.60 | 8.86 |
| 21 | 3.00 | 10.36 | 10.87 | 11.22 | 20.55 | 8.83 |
| 31 | 2.99 | 10.38 | 12.24 | 11.53 | 20.49 | 8.81 |
| April 10 | 27 2.98 | 27 10.33 | +13.62 | −11.79 | 20.43 | 8.78 |
| 20 | 2.97 | 10.24 | 15.00 | 11.97 | 20.37 | 8.76 |
| 30 | 2.95 | 10.10 | 16.37 | 12.02 | 20.32 | 8.73 |
| Mai 10 | 2.94 | 9.96 | 17.75 | 11.93 | 20.27 | 8.71 |
| 20 | 2.93 | 9.82 | 19.12 | 11.70 | 20.23 | 8.70 |
| 30 | 27 2.91 | 27 9.71 | +20.50 | −11.34 | 20.19 | 8.68 |
| Juni 9 | 2.90 | 9.65 | 21.88 | 10.89 | 20.16 | 8.67 |
| 19 | 2.89 | 9.64 | 23.25 | 10.38 | 20.14 | 8.66 |
| 29 | 2.88 | 9.68 | 24.63 | 9.86 | 20.13 | 8.66 |
| Juli 9 | 2.86 | 9.79 | 26.01 | 9.37 | 20.13 | 8.66 |
| 19 | 27 2.85 | 27 9.95 | +27.38 | − 8.95 | 20.14 | 8.66 |
| 29 | 2.84 | 10.14 | 28.76 | 8.64 | 20.16 | 8.67 |
| Aug. 8 | 2.82 | 10.36 | 30.13 | 8.46 | 20.19 | 8.68 |
| 18 | 2.81 | 10.57 | 31.51 | 8.42 | 20.22 | 8.69 |
| 28 | 2.80 | 10.76 | 32.88 | 8.51 | 20.27 | 8.71 |
| Sept. 7 | 27 2.79 | 27 10.92 | +34.26 | − 8.70 | 20.32 | 8.73 |
| 17 | 2.77 | 11.03 | 35.64 | 8.97 | 20.37 | 8.76 |
| 27 | 2.76 | 11.07 | 37.01 | 9.28 | 20.43 | 8.78 |
| Okt. 7 | 2.75 | 11.04 | 38.39 | 9.56 | 20.49 | 8.81 |
| 17 | 2.74 | 10.96 | 39.76 | 9.78 | 20.55 | 8.83 |
| 27 | 27 2.72 | 27 10.83 | +41.14 | − 9.88 | 20.61 | 8.86 |
| Nov. 6 | 2.71 | 10.67 | 42.52 | 9.84 | 20.66 | 8.88 |
| 16 | 2.70 | 10.51 | 43.89 | 9.64 | 20.70 | 8.90 |
| 26 | 2.68 | 10.36 | 45.27 | 9.29 | 20.74 | 8.92 |
| Dez. 6 | 2.67 | 10.25 | 46.64 | 8.81 | 20.78 | 8.93 |
| 16 | 27 2.66 | 27 10.20 | +48.02 | − 8.23 | 20.80 | 8.94 |
| 26 | 2.65 | 10.22 | 49.40 | 7.61 | 20.82 | 8.95 |
| 36 | 2.63 | 10.30 | 50.77 | 7.02 | 20.82 | 8.95 |

Mittlere Schiefe der Ekliptik für 1910.0 = 23° 27′ 3″.58.

## Mittlerer Berliner Mittag.

| Monats- und Wochentag | | | Zeitgleichung M. Zt. — W. Zt. | Scheinb. AR. | Diff. | Scheinb. Dekl. | Diff. | Durchg.-Dauer St.-Zt. | Halbm. |
|---|---|---|---|---|---|---|---|---|---|
| | | | m s | h m s | m s | ° ′ ″ | ′ ″ | s | ′ ″ |
| Jan. | 0 | Sa | + 2 49.41 | 18 38 48.60 | 4 25.42 | —23 9 9.7 | 4 20.0 | 141.95 | 16 15.91 |
| | 1 | So | 3 18.27 | 18 43 14.02 | 4 25.12 | 23 4 49.7 | 4 47.7 | 141.87 | 16 15.92 |
| | 2 | Mo | 3 46.83 | 18 47 39.14 | 4 24.79 | 23 0 2.0 | 5 15.3 | 141.79 | 16 15.92 |
| | 3 | Di | 4 15.06 | 18 52 3.93 | 4 24.42 | 22 54 46.7 | 5 42.7 | 141.70 | 16 15.93 |
| | 4 | Mi | 4 42.92 | 18 56 28.35 | 4 24.01 | 22 49 4.0 | 6 9.9 | 141.61 | 16 15.92 |
| | 5 | Do | + 5 10.37 | 19 0 52.36 | 4 23.57 | —22 42 54.1 | 6 36.9 | 141.50 | 16 15.92 |
| | 6 | Fr | 5 37.39 | 19 5 15.93 | 4 23.11 | 22 36 17.2 | 7 3.7 | 141.38 | 16 15.91 |
| | 7 | Sa | 6 3.94 | 19 9 39.04 | 4 22.62 | 22 29 13.5 | 7 30.4 | 141.25 | 16 15.90 |
| | 8 | So | 6 30.00 | 19 14 1.66 | 4 22.10 | 22 21 43.1 | 7 56.8 | 141.12 | 16 15.88 |
| | 9 | Mo | 6 55.54 | 19 18 23.76 | 4 21.54 | 22 13 46.3 | 8 22.9 | 140.98 | 16 15.85 |
| | 10 | Di | + 7 20.52 | 19 22 45.30 | 4 20.97 | —22 5 23.4 | 8 48.7 | 140.83 | 16 15.82 |
| | 11 | Mi | 7 44.93 | 19 27 6.27 | 4 20.39 | 21 56 34.7 | 9 14.3 | 140.68 | 16 15.79 |
| | 12 | Do | 8 8.76 | 19 31 26.66 | 4 19.78 | 21 47 20.4 | 9 39.6 | 140.53 | 16 15.75 |
| | 13 | Fr | 8 31.98 | 19 35 46.44 | 4 19.14 | 21 37 40.8 | 10 4.7 | 140.37 | 16 15.70 |
| | 14 | Sa | 8 54.57 | 19 40 5.58 | 4 18.50 | 21 27 36.1 | 10 29.5 | 140.20 | 16 15.64 |
| | 15 | So | + 9 16.51 | 19 44 24.08 | 4 17.85 | —21 17 6.6 | 10 54.0 | 140.02 | 16 15.58 |
| | 16 | Mo | 9 37.80 | 19 48 41.93 | 4 17.18 | 21 6 12.6 | 11 18.1 | 139.84 | 16 15.52 |
| | 17 | Di | 9 58.43 | 19 52 59.11 | 4 16.49 | 20 54 54.5 | 11 42.0 | 139.65 | 16 15.44 |
| | 18 | Mi | 10 18.36 | 19 57 15.60 | 4 15.79 | 20 43 12.5 | 12 5.6 | 139.46 | 16 15.36 |
| | 19 | Do | 10 37.59 | 20 1 31.39 | 4 15.09 | 20 31 6.9 | 12 28.9 | 139.26 | 16 15.28 |
| | 20 | Fr | +10 56.12 | 20 5 46.48 | 4 14.37 | —20 18 38.0 | 12 51.8 | 139.06 | 16 15.19 |
| | 21 | Sa | 11 13.93 | 20 10 0.85 | 4 13.63 | 20 5 46.2 | 13 14.4 | 138.85 | 16 15.09 |
| | 22 | So | 11 31.00 | 20 14 14.48 | 4 12.88 | 19 52 31.8 | 13 36.7 | 138.64 | 16 14.99 |
| | 23 | Mo | 11 47.33 | 20 18 27.36 | 4 12.13 | 19 38 55.1 | 13 58.6 | 138.43 | 16 14.89 |
| | 24 | Di | 12 2.90 | 20 22 39.49 | 4 11.36 | 19 24 56.5 | 14 20.1 | 138.21 | 16 14.78 |
| | 25 | Mi | +12 17.70 | 20 26 50.85 | 4 10.58 | —19 10 36.4 | 14 41.4 | 137.99 | 16 14.66 |
| | 26 | Do | 12 31.73 | 20 31 1.43 | 4 9.79 | 18 55 55.0 | 15 2.2 | 137.77 | 16 14.54 |
| | 27 | Fr | 12 44.96 | 20 35 11.22 | 4 8.99 | 18 40 52.8 | 15 22.5 | 137.54 | 16 14.42 |
| | 28 | Sa | 12 57.39 | 20 39 20.21 | 4 8.19 | 18 25 30.3 | 15 42.6 | 137.32 | 16 14.30 |
| | 29 | So | 13 9.02 | 20 43 28.40 | 4 7.37 | 18 9 47.7 | 16 2.2 | 137.09 | 16 14.17 |
| | 30 | Mo | +13 19.84 | 20 47 35.77 | 4 6.55 | —17 53 45.5 | 16 21.4 | 136.87 | 16 14.04 |
| | 31 | Di | 13 29.84 | 20 51 42.32 | 4 5.73 | 17 37 24.1 | 16 40.3 | 136.64 | 16 13.90 |
| Febr. | 1 | Mi | 13 39.01 | 20 55 48.05 | 4 4.90 | 17 20 43.8 | 16 58.6 | 136.41 | 16 13.76 |
| | 2 | Do | 13 47.35 | 20 59 52.95 | 4 4.06 | 17 3 45.2 | 17 16.5 | 136.18 | 16 13.62 |
| | 3 | Fr | 13 54.86 | 21 3 57.01 | 4 3.23 | 16 46 28.7 | 17 34.1 | 135.95 | 16 13.48 |
| | 4 | Sa | +14 1.53 | 21 8 0.24 | 4 2.39 | —16 28 54.6 | 17 51.2 | 135.72 | 16 13.33 |
| | 5 | So | 14 7.36 | 21 12 2.63 | 4 1.55 | 16 11 3.4 | 18 7.8 | 135.49 | 16 13.18 |
| | 6 | Mo | 14 12.36 | 21 16 4.18 | 4 0.72 | 15 52 55.6 | 18 24.0 | 135.26 | 16 13.02 |
| | 7 | Di | 14 16.52 | 21 20 4.90 | 3 59.90 | 15 34 31.6 | 18 39.9 | 135.03 | 16 12.86 |
| | 8 | Mi | 14 19.86 | 21 24 4.80 | | 15 15 51.7 | | 134.81 | 16 12.70 |

## Mittlerer Berliner Mittag.

| Monatstag | Jahrestag | Sternzeit | Mittleres Äqu. 1911.0 Länge | Diff. | Breite | Lg. Rad. v. | Diff. | Nut. ☾ in 0″.01 dλ | dε |
|---|---|---|---|---|---|---|---|---|---|
| | | h m s | ° ′ ″ | ′ ″ | ″ | | | | |
| Jan. 0 | 0 | 18 35 59.19 | 278 55 24.81 | 61 10.64 | −0.48 | 9.9926955 | 46 | + 3 | −8 |
| 1 | 1 | 18 39 55.75 | 279 56 35.45 | 61 10.65 | −0.56 | 9.9926909 | 28 | +10 | −6 |
| 2 | 2 | 18 43 52.31 | 280 57 46.10 | 61 10.56 | −0.61 | 9.9926881 | 11 | +13 | −3 |
| 3 | 3 | 18 47 48.87 | 281 58 56.66 | 61 10.39 | −0.63 | 9.9926870 | 6 | +13 | +1 |
| 4 | 4 | 18 51 45.43 | 283 0 7.05 | 61 10.13 | −0.62 | 9.9926876 | 24 | +10 | +5 |
| 5 | 5 | 18 55 41.99 | 284 1 17.18 | 61 9.79 | −0.58 | 9.9926900 | 43 | + 3 | +8 |
| 6 | 6 | 18 59 38.54 | 285 2 26.97 | 61 9.39 | −0.52 | 9.9926943 | 63 | − 5 | +9 |
| 7 | 7 | 19 3 35.10 | 286 3 36.36 | 61 8.92 | −0.43 | 9.9927006 | 85 | −13 | +8 |
| 8 | 8 | 19 7 31.66 | 287 4 45.28 | 61 8.39 | −0.32 | 9.9927091 | 108 | −20 | +6 |
| 9 | 9 | 19 11 28.22 | 288 5 53.67 | 61 7.84 | −0.19 | 9.9927199 | 132 | −23 | +2 |
| 10 | 10 | 19 15 24.78 | 289 7 1.51 | 61 7.27 | −0.05 | 9.9927331 | 157 | −21 | −2 |
| 11 | 11 | 19 19 21.34 | 290 8 8.78 | 61 6.70 | +0.08 | 9.9927488 | 184 | −16 | −6 |
| 12 | 12 | 19 23 17.90 | 291 9 15.48 | 61 6.15 | +0.21 | 9.9927672 | 212 | − 7 | −8 |
| 13 | 13 | 19 27 14.45 | 292 10 21.63 | 61 5.63 | +0.32 | 9.9927884 | 241 | + 4 | −9 |
| 14 | 14 | 19 31 11.01 | 293 11 27.26 | 61 5.15 | +0.40 | 9.9928125 | 270 | +14 | −8 |
| 15 | 15 | 19 35 7.57 | 294 12 32.41 | 61 4.71 | +0.45 | 9.9928395 | 298 | +22 | −5 |
| 16 | 16 | 19 39 4.13 | 295 13 37.12 | 61 4.31 | +0.47 | 9.9928693 | 326 | +26 | −1 |
| 17 | 17 | 19 43 0.68 | 296 14 41.43 | 61 3.93 | +0.46 | 9.9929019 | 354 | +27 | +3 |
| 18 | 18 | 19 46 57.24 | 297 15 45.36 | 61 3.56 | +0.42 | 9.9929373 | 379 | +22 | +6 |
| 19 | 19 | 19 50 53.80 | 298 16 48.92 | 61 3.19 | +0.35 | 9.9929752 | 404 | +14 | +8 |
| 20 | 20 | 19 54 50.36 | 299 17 52.11 | 61 2.80 | +0.26 | 9.9930156 | 427 | + 4 | +9 |
| 21 | 21 | 19 58 46.92 | 300 18 54.91 | 61 2.38 | +0.15 | 9.9930583 | 450 | − 6 | +7 |
| 22 | 22 | 20 2 43.47 | 301 19 57.29 | 61 1.92 | +0.03 | 9.9931033 | 470 | −13 | +5 |
| 23 | 23 | 20 6 40.03 | 302 20 59.21 | 61 1.42 | −0.09 | 9.9931503 | 490 | −17 | +1 |
| 24 | 24 | 20 10 36.59 | 303 22 0.63 | 61 0.86 | −0.22 | 9.9931993 | 509 | −18 | −3 |
| 25 | 25 | 20 14 33.15 | 304 23 1.49 | 61 0.23 | −0.34 | 9.9932502 | 526 | −15 | −7 |
| 26 | 26 | 20 18 29.70 | 305 24 1.72 | 60 59.55 | −0.45 | 9.9933028 | 543 | − 7 | −9 |
| 27 | 27 | 20 22 26.26 | 306 25 1.27 | 60 58.81 | −0.55 | 9.9933571 | 558 | + 1 | −9 |
| 28 | 28 | 20 26 22.82 | 307 26 0.08 | 60 57.98 | −0.62 | 9.9934129 | 573 | + 7 | −7 |
| 29 | 29 | 20 30 19.37 | 308 26 58.06 | 60 57.06 | −0.67 | 9.9934702 | 588 | +12 | −4 |
| 30 | 30 | 20 34 15.93 | 309 27 55.12 | 60 56.05 | −0.69 | 9.9935290 | 602 | +14 | 0 |
| 31 | 31 | 20 38 12.48 | 310 28 51.17 | 60 54.95 | −0.68 | 9.9935892 | 615 | +11 | +4 |
| Febr. 1 | 32 | 20 42 9.04 | 311 29 46.12 | 60 53.76 | −0.65 | 9.9936507 | 629 | + 5 | +7 |
| 2 | 33 | 20 46 5.60 | 312 30 39.88 | 60 52.49 | −0.59 | 9.9937136 | 643 | − 2 | +9 |
| 3 | 34 | 20 50 2.16 | 313 31 32.37 | 60 51.12 | −0.51 | 9.9937779 | 658 | −11 | +9 |
| 4 | 35 | 20 53 58.71 | 314 32 23.49 | 60 49.68 | −0.40 | 9.9938437 | 674 | −18 | +7 |
| 5 | 36 | 20 57 55.27 | 315 33 13.17 | 60 48.18 | −0.27 | 9.9939111 | 690 | −23 | +3 |
| 6 | 37 | 21 1 51.82 | 316 34 1.35 | 60 46.64 | −0.13 | 9.9939801 | 708 | −22 | −1 |
| 7 | 38 | 21 5 48.38 | 317 34 47.99 | 60 45.08 | 0.00 | 9.9940509 | 727 | −19 | −5 |
| 8 | 39 | 21 9 44.94 | 318 35 33.07 | | +0.12 | 9.9941236 | | −10 | −7 |

## Mittlerer Berliner Mittag.

| Monats- und Wochentag | | Zeitgleichung M. Zt. — W. Zt. | Scheinb. AR. | Diff. | Scheinb. Dekl. | Diff. | Durchg.-Dauer St.-Zt. | Halbm. |
|---|---|---|---|---|---|---|---|---|
| | | m s | h m s | m s | ° ' " | ' " | s | ' " |
| Febr. 7 | Di | +14 16.52 | 21 20 4.90 | 3 59.90 | −15 34 31.6 | 18 39.9 | 135.03 | 16 12.86 |
| 8 | Mi | 14 19.86 | 21 24 4.80 | 3 59.08 | 15 15 51.7 | 18 55.3 | 134.81 | 16 12.70 |
| 9 | Do | 14 22.39 | 21 28 3.88 | 3 58.27 | 14 56 56.4 | 19 10.2 | 134.58 | 16 12.53 |
| 10 | Fr | 14 24.11 | 21 32 2.15 | 3 57.48 | 14 37 46.2 | 19 24.8 | 134.36 | 16 12.36 |
| 11 | Sa | 14 25.03 | 21 35 59.63 | 3 56.69 | 14 18 21.4 | 19 39.0 | 134.14 | 16 12.19 |
| 12 | So | +14 25.16 | 21 39 56.32 | 3 55.92 | −13 58 42.4 | 19 52.7 | 133.92 | 16 12.01 |
| 13 | Mo | 14 24.52 | 21 43 52.24 | 3 55.17 | 13 38 49.7 | 20 6.1 | 133.70 | 16 11.82 |
| 14 | Di | 14 23.13 | 21 47 47.41 | 3 54.42 | 13 18 43.6 | 20 19.1 | 133.49 | 16 11.63 |
| 15 | Mi | 14 21.00 | 21 51 41.83 | 3 53.69 | 12 58 24.5 | 20 31.7 | 133.28 | 16 11.43 |
| 16 | Do | 14 18.14 | 21 55 35.52 | 3 52.98 | 12 37 52.8 | 20 43.9 | 133.07 | 16 11.22 |
| 17 | Fr | +14 14.56 | 21 59 28.50 | 3 52.29 | −12 17 8.9 | 20 55.7 | 132.86 | 16 11.02 |
| 18 | Sa | 14 10.29 | 22 3 20.79 | 3 51.60 | 11 56 13.2 | 21 7.1 | 132.66 | 16 10.81 |
| 19 | So | 14 5.34 | 22 7 12.39 | 3 50.93 | 11 35 6.1 | 21 18.1 | 132.46 | 16 10.59 |
| 20 | Mo | 13 59.72 | 22 11 3.32 | 3 50.28 | 11 13 48.0 | 21 28.8 | 132.26 | 16 10.37 |
| 21 | Di | 13 53.45 | 22 14 53.60 | 3 49.64 | 10 52 19.2 | 21 39.0 | 132.07 | 16 10.15 |
| 22 | Mi | +13 46.53 | 22 18 43.24 | 3 49.01 | −10 30 40.2 | 21 48.8 | 131.88 | 16 9.93 |
| 23 | Do | 13 38.99 | 22 22 32.25 | 3 48.39 | 10 8 51.4 | 21 58.2 | 131.70 | 16 9.70 |
| 24 | Fr | 13 30.83 | 22 26 20.64 | 3 47.80 | 9 46 53.2 | 22 7.1 | 131.52 | 16 9.47 |
| 25 | Sa | 13 22.07 | 22 30 8.44 | 3 47.22 | 9 24 46.1 | 22 15.7 | 131.34 | 16 9.24 |
| 26 | So | 13 12.73 | 22 33 55.66 | 3 46.65 | 9 2 30.4 | 22 23.9 | 131.17 | 16 9.01 |
| 27 | Mo | +13 2.82 | 22 37 42.31 | 3 46.09 | − 8 40 6.5 | 22 31.6 | 131.01 | 16 8.77 |
| 28 | Di | 12 52.36 | 22 41 28.40 | 3 45.56 | 8 17 34.9 | 22 39.0 | 130.85 | 16 8.53 |
| März 1 | Mi | 12 41.37 | 22 45 13.96 | 3 45.03 | 7 54 55.9 | 22 45.9 | 130.69 | 16 8.30 |
| 2 | Do | 12 29.85 | 22 48 58.99 | 3 44.51 | 7 32 10.0 | 22 52.3 | 130.54 | 16 8.06 |
| 3 | Fr | 12 17.81 | 22 52 43.50 | 3 44.01 | 7 9 17.7 | 22 58.3 | 130.39 | 16 7.82 |
| 4 | Sa | +12 5.26 | 22 56 27.51 | 3 43.53 | − 6 46 19.4 | 23 4.0 | 130.25 | 16 7.58 |
| 5 | So | 11 52.23 | 23 0 11.04 | 3 43.06 | 6 23 15.4 | 23 9.2 | 130.12 | 16 7.34 |
| 6 | Mo | 11 38.74 | 23 3 54.10 | 3 42.61 | 6 0 6.2 | 23 13.9 | 129.99 | 16 7.09 |
| 7 | Di | 11 24.80 | 23 7 36.71 | 3 42.19 | 5 36 52.3 | 23 18.3 | 129.87 | 16 6.85 |
| 8 | Mi | 11 10.43 | 23 11 18.90 | 3 41.77 | 5 13 34.0 | 23 22.4 | 129.75 | 16 6.60 |
| 9 | Do | +10 55.65 | 23 15 0.67 | 3 41.38 | − 4 50 11.6 | 23 26.0 | 129.64 | 16 6.35 |
| 10 | Fr | 10 40.48 | 23 18 42.05 | 3 41.01 | 4 26 45.6 | 23 29.2 | 129.53 | 16 6.10 |
| 11 | Sa | 10 24.94 | 23 22 23.06 | 3 40.66 | 4 3 16.4 | 23 32.1 | 129.43 | 16 5.85 |
| 12 | So | 10 9.05 | 23 26 3.72 | 3 40.35 | 3 39 44.3 | 23 34.6 | 129.33 | 16 5.59 |
| 13 | Mo | 9 52.84 | 23 29 44.07 | 3 40.05 | 3 16 9.7 | 23 36.8 | 129.24 | 16 5.33 |
| 14 | Di | + 9 36.33 | 23 33 24.12 | 3 39.77 | − 2 52 32.9 | 23 38.6 | 129.16 | 16 5.07 |
| 15 | Mi | 9 19.55 | 23 37 3.89 | 3 39.52 | 2 28 54.3 | 23 40.1 | 129.08 | 16 4.80 |
| 16 | Do | 9 2.52 | 23 40 43.41 | 3 39.30 | 2 5 14.2 | 23 41.2 | 129.01 | 16 4.54 |
| 17 | Fr | 8 45.26 | 23 44 22.71 | 3 39.09 | 1 41 33.0 | 23 42.1 | 128.95 | 16 4.27 |
| 18 | Sa | 8 27.80 | 23 48 1.80 | | 1 17 50.9 | | 128.89 | 16 3.99 |

## Mittlerer Berliner Mittag.

| Monats- und Jahrestag | | | Sternzeit | Mittleres Äqu. 1911.0 Länge | Diff. | Breite | Lg. Rad. v. | Diff. | Nut. ☾ in 0".01 dλ | dε |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | h m s | ° ′ ″ | ′ ″ | ″ | | | | |
| Febr. | 7 | 38 | 21 5 48.38 | 317 34 47.99 | 60 45.08 | 0.00 | 9.9940509 | 727 | −19 | −5 |
| | 8 | 39 | 21 9 44.94 | 318 35 33.07 | 60 43.50 | +0.12 | 9.9941236 | 748 | −10 | −7 |
| | 9 | 40 | 21 13 41.49 | 319 36 16.57 | 60 41.93 | +0.23 | 9.9941984 | 770 | 0 | −9 |
| | 10 | 41 | 21 17 38.05 | 320 36 58.50 | 60 40.38 | +0.31 | 9.9942754 | 792 | +11 | −8 |
| | 11 | 42 | 21 21 34.60 | 321 37 38.88 | 60 38.88 | +0.36 | 9.9943546 | 814 | +20 | −6 |
| | 12 | 43 | 21 25 31.16 | 322 38 17.76 | 60 37.42 | +0.38 | 9.9944360 | 837 | +25 | −3 |
| | 13 | 44 | 21 29 27.72 | 323 38 55.18 | 60 36.00 | +0.38 | 9.9945197 | 860 | +26 | +1 |
| | 14 | 45 | 21 33 24.27 | 324 39 31.18 | 60 34.62 | +0.35 | 9.9946057 | 882 | +24 | +5 |
| | 15 | 46 | 21 37 20.83 | 325 40 5.80 | 60 33.26 | +0.29 | 9.9946939 | 904 | +17 | +8 |
| | 16 | 47 | 21 41 17.38 | 326 40 39.06 | 60 31.94 | +0.21 | 9.9947843 | 923 | + 7 | +9 |
| | 17 | 48 | 21 45 13.94 | 327 41 11.00 | 60 30.63 | +0.10 | 9.9948766 | 943 | − 2 | +8 |
| | 18 | 49 | 21 49 10.49 | 328 41 41.63 | 60 29.32 | −0.02 | 9.9949709 | 960 | −11 | +6 |
| | 19 | 50 | 21 53 7.05 | 329 42 10.95 | 60 28.01 | −0.14 | 9.9950669 | 977 | −17 | +2 |
| | 20 | 51 | 21 57 3.60 | 330 42 38.96 | 60 26.67 | −0.27 | 9.9951646 | 991 | −18 | −2 |
| | 21 | 52 | 22 1 0.15 | 331 43 5.63 | 60 25.30 | −0.39 | 9.9952637 | 1005 | −16 | −6 |
| | 22 | 53 | 22 4 56.71 | 332 43 30.93 | 60 23.91 | −0.50 | 9.9953642 | 1017 | − 9 | −8 |
| | 23 | 54 | 22 8 53.26 | 333 43 54.84 | 60 22.48 | −0.60 | 9.9954659 | 1028 | − 2 | −9 |
| | 24 | 55 | 22 12 49.82 | 334 44 17.32 | 60 21.02 | −0.67 | 9.9955687 | 1038 | + 6 | −8 |
| | 25 | 56 | 22 16 46.37 | 335 44 38.34 | 60 19.51 | −0.72 | 9.9956725 | 1047 | +12 | −5 |
| | 26 | 57 | 22 20 42.93 | 336 44 57.85 | 60 17.94 | −0.74 | 9.9957772 | 1054 | +14 | −1 |
| | 27 | 58 | 22 24 39.48 | 337 45 15.79 | 60 16.29 | −0.73 | 9.9958826 | 1060 | +12 | +3 |
| | 28 | 59 | 22 28 36.04 | 338 45 32.08 | 60 14.56 | −0.70 | 9.9959886 | 1066 | + 8 | +6 |
| März | 1 | 60 | 22 32 32.59 | 339 45 46.64 | 60 12.75 | −0.64 | 9.9960952 | 1071 | 0 | +8 |
| | 2 | 61 | 22 36 29.14 | 340 45 59.39 | 60 10.85 | −0.56 | 9.9962023 | 1075 | − 8 | +9 |
| | 3 | 62 | 22 40 25.70 | 341 46 10.24 | 60 8.86 | −0.45 | 9.9963098 | 1081 | −16 | +7 |
| | 4 | 63 | 22 44 22.25 | 342 46 19.10 | 60 6.79 | −0.33 | 9.9964179 | 1087 | −22 | +5 |
| | 5 | 64 | 22 48 18.81 | 343 46 25.89 | 60 4.68 | −0.20 | 9.9965266 | 1093 | −23 | +1 |
| | 6 | 65 | 22 52 15.36 | 344 46 30.57 | 60 2.53 | −0.06 | 9.9966359 | 1100 | −21 | −3 |
| | 7 | 66 | 22 56 11.91 | 345 46 33.10 | 60 0.34 | +0.06 | 9.9967459 | 1109 | −13 | −7 |
| | 8 | 67 | 23 0 8.47 | 346 46 33.44 | 59 58.13 | +0.17 | 9.9968568 | 1119 | − 3 | −9 |
| | 9 | 68 | 23 4 5.02 | 347 46 31.57 | 59 55.93 | +0.26 | 9.9969687 | 1129 | + 7 | −9 |
| | 10 | 69 | 23 8 1.57 | 348 46 27.50 | 59 53.75 | +0.33 | 9.9970816 | 1141 | +16 | −7 |
| | 11 | 70 | 23 11 58.13 | 349 46 21.25 | 59 51.60 | +0.36 | 9.9971957 | 1153 | +23 | −4 |
| | 12 | 71 | 23 15 54.68 | 350 46 12.85 | 59 49.50 | +0.36 | 9.9973110 | 1165 | +26 | 0 |
| | 13 | 72 | 23 19 51.23 | 351 46 2.35 | 59 47.44 | +0.33 | 9.9974275 | 1179 | +25 | +4 |
| | 14 | 73 | 23 23 47.79 | 352 45 49.79 | 59 45.45 | +0.27 | 9.9975454 | 1192 | +19 | +7 |
| | 15 | 74 | 23 27 44.34 | 353 45 35.24 | 59 43.50 | +0.18 | 9.9976646 | 1204 | +11 | +9 |
| | 16 | 75 | 23 31 40.89 | 354 45 18.74 | 59 41.60 | +0.08 | 9.9977850 | 1215 | + 1 | +9 |
| | 17 | 76 | 23 35 37.45 | 355 45 0.34 | 59 39.75 | −0.04 | 9.9979065 | 1226 | − 9 | +7 |
| | 18 | 77 | 23 39 34.00 | 356 44 40.09 | | −0.17 | 9.9980291 | | −15 | +3 |

## Mittlerer Berliner Mittag.

| Monats- und Wochentag | | Zeitgleichung M. Zt. — W. Zt. | Scheinb. AR. | Diff. | Scheinb. Dekl. | Diff. | Durchg.-Dauer St.-Zt. | Halbm. |
|---|---|---|---|---|---|---|---|---|
| | | m s | h m s | m s | ° ′ ″ | ′ ″ | s | ′ ″ |
| März 17 | Fr | +8 45.26 | 23 44 22.71 | 3 39.09 | — 1 41 33.0 | 23 42.1 | 128.95 | 16 4.27 |
| 18 | Sa | 8 27.80 | 23 48 1.80 | 3 38.92 | 1 17 50.9 | 23 42.5 | 128.89 | 16 3.99 |
| 19 | So | 8 10.16 | 23 51 40.72 | 3 38.76 | 0 54 8.4 | 23 42.6 | 128.84 | 16 3.72 |
| 20 | Mo | 7 52.37 | 23 55 19.48 | 3 38.62 | 0 30 25.8 | 23 42.4 | 128.79 | 16 3.44 |
| 21 | Di | 7 34.44 | 23 58 58.10 | 3 38.50 | — 0 6 43.4 | 23 41.8 | 128.75 | 16 3.17 |
| 22 | Mi | +7 16.39 | 0 2 36.60 | 3 38.41 | + 0 16 58.4 | 23 40.8 | 128.71 | 16 2.89 |
| 23 | Do | 6 58.25 | 0 6 15.01 | 3 38.34 | 0 40 39.2 | 23 39.5 | 128.68 | 16 2.61 |
| 24 | Fr | 6 40.03 | 0 9 53.35 | 3 38.29 | 1 4 18.7 | 23 38.0 | 128.66 | 16 2.33 |
| 25 | Sa | 6 21.76 | 0 13 31.64 | 3 38.26 | 1 27 56.7 | 23 35.9 | 128.64 | 16 2.05 |
| 26 | So | 6 3.46 | 0 17 9.90 | 3 38.24 | 1 51 32.6 | 23 33.5 | 128.63 | 16 1.77 |
| 27 | Mo | +5 45.15 | 0 20 48.14 | 3 38.24 | + 2 15 6.1 | 23 30.8 | 128.62 | 16 1.49 |
| 28 | Di | 5 26.85 | 0 24 26.38 | 3 38.26 | 2 38 36.9 | 23 27.7 | 128.62 | 16 1.21 |
| 29 | Mi | 5 8.56 | 0 28 4.64 | 3 38.30 | 3 2 4.6 | 23 24.1 | 128.63 | 16 0.93 |
| 30 | Do | 4 50.30 | 0 31 42.94 | 3 38.35 | 3 25 28.7 | 23 20.2 | 128.64 | 16 0.66 |
| 31 | Fr | 4 32.09 | 0 35 21.29 | 3 38.42 | 3 48 48.9 | 23 16.0 | 128.66 | 16 0.38 |
| April 1 | Sa | +4 13.95 | 0 38 59.71 | 3 38.50 | + 4 12 4.9 | 23 11.3 | 128.68 | 16 0.11 |
| 2 | So | 3 55.90 | 0 42 38.21 | 3 38.60 | 4 35 16.2 | 23 6.3 | 128.71 | 15 59.83 |
| 3 | Mo | 3 37.95 | 0 46 16.81 | 3 38.71 | 4 58 22.5 | 23 0.9 | 128.75 | 15 59.56 |
| 4 | Di | 3 20.11 | 0 49 55.52 | 3 38.84 | 5 21 23.4 | 22 55.1 | 128.79 | 15 59.29 |
| 5 | Mi | 3 2.40 | 0 53 34.36 | 3 38.99 | 5 44 18.5 | 22 49.0 | 128.84 | 15 59.02 |
| 6 | Do | +2 44.84 | 0 57 13.35 | 3 39.16 | + 6 7 7.5 | 22 42.5 | 128.89 | 15 58.76 |
| 7 | Fr | 2 27.44 | 1 0 52.51 | 3 39.35 | 6 29 50.0 | 22 35.7 | 128.95 | 15 58.49 |
| 8 | Sa | 2 10.23 | 1 4 31.86 | 3 39.55 | 6 52 25.7 | 22 28.5 | 129.02 | 15 58.22 |
| 9 | So | 1 53.23 | 1 8 11.41 | 3 39.78 | 7 14 54.2 | 22 21.0 | 129.09 | 15 57.95 |
| 10 | Mo | 1 36.46 | 1 11 51.19 | 3 40.02 | 7 37 15.2 | 22 13.3 | 129.16 | 15 57.68 |
| 11 | Di | +1 19.93 | 1 15 31.21 | 3 40.29 | + 7 59 28.5 | 22 5.2 | 129.24 | 15 57.41 |
| 12 | Mi | 1 3.66 | 1 19 11.50 | 3 40.58 | 8 21 33.7 | 21 56.8 | 129.32 | 15 57.15 |
| 13 | Do | 0 47.68 | 1 22 52.08 | 3 40.89 | 8 43 30.5 | 21 48.0 | 129.41 | 15 56.88 |
| 14 | Fr | 0 32.01 | 1 26 32.97 | 3 41.21 | 9 5 18.5 | 21 39.0 | 129.50 | 15 56.61 |
| 15 | Sa | 0 16.67 | 1 30 14.18 | 3 41.55 | 9 26 57.5 | 21 29.7 | 129.60 | 15 56.34 |
| 16 | So | +0 1.67 | 1 33 55.73 | 3 41.92 | + 9 48 27.2 | 21 20.0 | 129.70 | 15 56.07 |
| 17 | Mo | —0 12.97 | 1 37 37.65 | 3 42.30 | 10 9 47.2 | 21 10.0 | 129.81 | 15 55.80 |
| 18 | Di | 0 27.23 | 1 41 19.95 | 3 42.69 | 10 30 57.2 | 20 59.8 | 129.92 | 15 55.53 |
| 19 | Mi | 0 41.09 | 1 45 2.64 | 3 43.11 | 10 51 57.0 | 20 49.1 | 130.03 | 15 55.26 |
| 20 | Do | 0 54.53 | 1 48 45.75 | 3 43.53 | 11 12 46.1 | 20 38.2 | 130.15 | 15 55.00 |
| 21 | Fr | —1 7.55 | 1 52 29.28 | 3 43.98 | +11 33 24.3 | 20 26.9 | 130.27 | 15 54.73 |
| 22 | Sa | 1 20.13 | 1 56 13.26 | 3 44.43 | 11 53 51.2 | 20 15.4 | 130.39 | 15 54.47 |
| 23 | So | 1 32.25 | 1 59 57.69 | 3 44.90 | 12 14 6.6 | 20 3.4 | 130.52 | 15 54.21 |
| 24 | Mo | 1 43.90 | 2 3 42.59 | 3 45.38 | 12 34 10.0 | 19 51.1 | 130.65 | 15 53.95 |
| 25 | Di | 1 55.08 | 2 7 27.97 | | 12 54 1.1 | | 130.79 | 15 53.69 |

## Mittlerer Berliner Mittag.

| Monats- und Jahrestag | | | Sternzeit h m s | Mittleres Äqu. 1911.0 Länge ° ′ ″ | Diff. ′ ″ | Breite ″ | Lg. Rad. v. | Diff. | Nut. ☾ in 0″.01 dλ | dε |
|---|---|---|---|---|---|---|---|---|---|---|
| März | 17 | 76 | 23 35 37.45 | 355 45 0.34 | 59 39.75 | −0.04 | 9.9979065 | 1226 | − 9 | +7 |
| | 18 | 77 | 23 39 34.00 | 356 44 40.09 | 59 37.93 | −0.17 | 9.9980291 | 1235 | −15 | +3 |
| | 19 | 78 | 23 43 30.56 | 357 44 18.02 | 59 36.13 | −0.30 | 9.9981526 | 1243 | −17 | −1 |
| | 20 | 79 | 23 47 27.11 | 358 43 54.15 | 59 34.34 | −0.42 | 9.9982769 | 1250 | −16 | −5 |
| | 21 | 80 | 23 51 23.66 | 359 43 28.49 | 59 32.57 | −0.53 | 9.9984019 | 1256 | −11 | −7 |
| | 22 | 81 | 23 55 20.21 | 0 43 1.06 | 59 30.81 | −0.63 | 9.9985275 | 1260 | − 4 | −9 |
| | 23 | 82 | 23 59 16.77 | 1 42 31.87 | 59 29.05 | −0.71 | 9.9986535 | 1264 | + 4 | −8 |
| | 24 | 83 | 0 3 13.32 | 2 42 0.92 | 59 27.28 | −0.77 | 9.9987799 | 1265 | +10 | −6 |
| | 25 | 84 | 0 7 9.87 | 3 41 28.20 | 59 25.49 | −0.80 | 9.9989064 | 1264 | +14 | −3 |
| | 26 | 85 | 0 11 6.43 | 4 40 53.69 | 59 23.68 | −0.80 | 9.9990328 | 1263 | +14 | +1 |
| | 27 | 86 | 0 15 2.98 | 5 40 17.37 | 59 21.83 | −0.77 | 9.9991591 | 1260 | +10 | +5 |
| | 28 | 87 | 0 18 59.53 | 6 39 39.20 | 59 19.92 | −0.71 | 9.9992851 | 1256 | + 3 | +8 |
| | 29 | 88 | 0 22 56.09 | 7 38 59.12 | 59 17.95 | −0.62 | 9.9994107 | 1251 | − 5 | +9 |
| | 30 | 89 | 0 26 52.64 | 8 38 17.07 | 59 15.91 | −0.51 | 9.9995358 | 1245 | −15 | +8 |
| | 31 | 90 | 0 30 49.20 | 9 37 32.98 | 59 13.79 | −0.39 | 9.9996603 | 1239 | −21 | +6 |
| April | 1 | 91 | 0 34 45.75 | 10 36 46.77 | 59 11.60 | −0.26 | 9.9997842 | 1233 | −24 | +2 |
| | 2 | 92 | 0 38 42.30 | 11 35 58.37 | 59 9.35 | −0.12 | 9.9999075 | 1227 | −22 | −2 |
| | 3 | 93 | 0 42 38.86 | 12 35 7.72 | 59 7.05 | +0.01 | 0.0000302 | 1223 | −17 | −6 |
| | 4 | 94 | 0 46 35.41 | 13 34 14.77 | 59 4.73 | +0.13 | 0.0001525 | 1219 | − 7 | −8 |
| | 5 | 95 | 0 50 31.96 | 14 33 19.50 | 59 2.39 | +0.23 | 0.0002744 | 1217 | + 3 | −9 |
| | 6 | 96 | 0 54 28.52 | 15 32 21.89 | 59 0.06 | +0.30 | 0.0003961 | 1215 | +14 | −8 |
| | 7 | 97 | 0 58 25.07 | 16 31 21.95 | 58 57.74 | +0.34 | 0.0005176 | 1214 | +22 | −5 |
| | 8 | 98 | 1 2 21.63 | 17 30 19.69 | 58 55.45 | +0.35 | 0.0006390 | 1215 | +26 | −1 |
| | 9 | 99 | 1 6 18.18 | 18 29 15.14 | 58 53.20 | +0.33 | 0.0007605 | 1216 | +25 | +3 |
| | 10 | 100 | 1 10 14.73 | 19 28 8.34 | 58 51.02 | +0.27 | 0.0008821 | 1217 | +22 | +6 |
| | 11 | 101 | 1 14 11.29 | 20 26 59.36 | 58 48.91 | +0.19 | 0.0010038 | 1219 | +14 | +8 |
| | 12 | 102 | 1 18 7.84 | 21 25 48.27 | 58 46.85 | +0.09 | 0.0011257 | 1220 | + 4 | +9 |
| | 13 | 103 | 1 22 4.40 | 22 24 35.12 | 58 44.86 | −0.04 | 0.0012477 | 1222 | − 5 | +7 |
| | 14 | 104 | 1 26 0.95 | 23 23 19.98 | 58 42.93 | −0.17 | 0.0013699 | 1223 | −13 | +4 |
| | 15 | 105 | 1 29 57.50 | 24 22 2.91 | 58 41.05 | −0.30 | 0.0014922 | 1222 | −17 | +1 |
| | 16 | 106 | 1 33 54.06 | 25 20 43.96 | 58 39.23 | −0.43 | 0.0016144 | 1222 | −17 | −3 |
| | 17 | 107 | 1 37 50.61 | 26 19 23.19 | 58 37.46 | −0.55 | 0.0017366 | 1220 | −12 | −7 |
| | 18 | 108 | 1 41 47.17 | 27 18 0.65 | 58 35.75 | −0.65 | 0.0018586 | 1217 | − 6 | −9 |
| | 19 | 109 | 1 45 43.72 | 28 16 36.40 | 58 34.06 | −0.74 | 0.0019803 | 1213 | + 1 | −9 |
| | 20 | 110 | 1 49 40.28 | 29 15 10.46 | 58 32.41 | −0.80 | 0.0021016 | 1207 | + 8 | −7 |
| | 21 | 111 | 1 53 36.83 | 30 13 42.87 | 58 30.76 | −0.84 | 0.0022223 | 1201 | +13 | −4 |
| | 22 | 112 | 1 57 33.39 | 31 12 13.63 | 58 29.13 | −0.85 | 0.0023424 | 1193 | +14 | 0 |
| | 23 | 113 | 2 1 29.94 | 32 10 42.76 | 58 27.51 | −0.82 | 0.0024617 | 1183 | +11 | +4 |
| | 24 | 114 | 2 5 26.50 | 33 9 10.27 | 58 25.90 | −0.77 | 0.0025800 | 1172 | + 5 | +7 |
| | 25 | 115 | 2 9 23.05 | 34 7 36.17 | | −0.69 | 0.0026972 | | − 3 | +9 |

## Mittlerer Berliner Mittag.

| Monats- und Wochentag | | | Zeitgleichung M. Zt. — W. Zt. | Scheinb. AR. | Diff. | Scheinb. Dekl. | Diff. | Durchg.-Dauer St.-Zt. | Halbm. |
|---|---|---|---|---|---|---|---|---|---|
| | | | m s | h m s | m s | ° ′ ″ | ′ ″ | s | ′ ″ |
| April | 24 | Mo | —1 43.90 | 2 3 42.59 | 3 45.38 | +12 34 10.0 | 19 51.1 | 130.65 | 15 53.95 |
| | 25 | Di | 1 55.08 | 2 7 27.97 | 3 45.87 | 12 54 1.1 | 19 38.5 | 130.79 | 15 53.69 |
| | 26 | Mi | 2 5.77 | 2 11 13.84 | 3 46.36 | 13 13 39.6 | 19 25.6 | 130.93 | 15 53.43 |
| | 27 | Do | 2 15.96 | 2 15 0.20 | 3 46.87 | 13 33 5.2 | 19 12.2 | 131.07 | 15 53.18 |
| | 28 | Fr | 2 25.65 | 2 18 47.07 | 3 47.38 | 13 52 17.4 | 18 58.6 | 131.22 | 15 52.93 |
| | 29 | Sa | —2 34.83 | 2 22 34.45 | 3 47.89 | +14 11 16.0 | 18 44.5 | 131.37 | 15 52.69 |
| | 30 | So | 2 43.50 | 2 26 22.34 | 3 48.40 | 14 30 0.5 | 18 30.2 | 131.52 | 15 52.45 |
| Mai | 1 | Mo | 2 51.65 | 2 30 10.74 | 3 48.92 | 14 48 30.7 | 18 15.5 | 131.67 | 15 52.21 |
| | 2 | Di | 2 59.28 | 2 33 59.66 | 3 49.44 | 15 6 46.2 | 18 0.4 | 131.83 | 15 51.98 |
| | 3 | Mi | 3 6.39 | 2 37 49.10 | 3 49.97 | 15 24 46.6 | 17 44.9 | 131.99 | 15 51.75 |
| | 4 | Do | —3 12.97 | 2 41 39.07 | 3 50.51 | +15 42 31.5 | 17 29.3 | 132.15 | 15 51.52 |
| | 5 | Fr | 3 19.02 | 2 45 29.58 | 3 51.05 | 16 0 0.8 | 17 13.3 | 132.31 | 15 51.30 |
| | 6 | Sa | 3 24.53 | 2 49 20.63 | 3 51.59 | 16 17 14.1 | 16 56.9 | 132.47 | 15 51.08 |
| | 7 | So | 3 29.50 | 2 53 12.22 | 3 52.14 | 16 34 11.0 | 16 40.4 | 132.63 | 15 50.86 |
| | 8 | Mo | 3 33.91 | 2 57 4.36 | 3 52.69 | 16 50 51.4 | 16 23.5 | 132.80 | 15 50.64 |
| | 9 | Di | —3 37.78 | 3 0 57.05 | 3 53.25 | +17 7 14.9 | 16 6.2 | 132.96 | 15 50.42 |
| | 10 | Mi | 3 41.09 | 3 4 50.30 | 3 53.81 | 17 23 21.1 | 15 48.8 | 133.13 | 15 50.21 |
| | 11 | Do | 3 43.83 | 3 8 44.11 | 3 54.38 | 17 39 9.9 | 15 31.1 | 133.29 | 15 50.00 |
| | 12 | Fr | 3 46.01 | 3 12 38.49 | 3 54.95 | 17 54 41.0 | 15 13.1 | 133.46 | 15 49.79 |
| | 13 | Sa | 3 47.62 | 3 16 33.44 | 3 55.53 | 18 9 54.1 | 14 54.9 | 133.62 | 15 49.58 |
| | 14 | So | —3 48.65 | 3 20 28.97 | 3 56.10 | +18 24 49.0 | 14 36.3 | 133.79 | 15 49.38 |
| | 15 | Mo | 3 49.10 | 3 24 25.07 | 3 56.68 | 18 39 25.3 | 14 17.5 | 133.95 | 15 49.17 |
| | 16 | Di | 3 48.97 | 3 28 21.75 | 3 57.26 | 18 53 42.8 | 13 58.4 | 134.11 | 15 48.97 |
| | 17 | Mi | 3 48.27 | 3 32 19.01 | 3 57.84 | 19 7 41.2 | 13 39.1 | 134.27 | 15 48.77 |
| | 18 | Do | 3 46.99 | 3 36 16.85 | 3 58.41 | 19 21 20.3 | 13 19.6 | 134.43 | 15 48.57 |
| | 19 | Fr | —3 45.14 | 3 40 15.26 | 3 58.98 | +19 34 39.9 | 12 59.7 | 134.58 | 15 48.38 |
| | 20 | Sa | 3 42.72 | 3 44 14.24 | 3 59.55 | 19 47 39.6 | 12 39.5 | 134.74 | 15 48.19 |
| | 21 | So | 3 39.72 | 3 48 13.79 | 4 0.11 | 20 0 19.1 | 12 19.2 | 134.89 | 15 48.00 |
| | 22 | Mo | 3 36.16 | 3 52 13.90 | 4 0.67 | 20 12 38.3 | 11 58.6 | 135.04 | 15 47.81 |
| | 23 | Di | 3 32.05 | 3 56 14.57 | 4 1.22 | 20 24 36.9 | 11 37.7 | 135.19 | 15 47.63 |
| | 24 | Mi | —3 27.39 | 4 0 15.79 | 4 1.75 | +20 36 14.6 | 11 16.6 | 135.34 | 15 47.45 |
| | 25 | Do | 3 22.20 | 4 4 17.54 | 4 2.27 | 20 47 31.2 | 10 55.2 | 135.48 | 15 47.28 |
| | 26 | Fr | 3 16.49 | 4 8 19.81 | 4 2.78 | 20 58 26.4 | 10 33.5 | 135.62 | 15 47.11 |
| | 27 | Sa | 3 10.27 | 4 12 22.59 | 4 3.27 | 21 8 59.9 | 10 11.6 | 135.76 | 15 46.95 |
| | 28 | So | 3 3.56 | 4 16 25.86 | 4 3.74 | 21 19 11.5 | 9 49.5 | 135.90 | 15 46.79 |
| | 29 | Mo | —2 56.38 | 4 20 29.60 | 4 4.19 | +21 29 1.0 | 9 27.2 | 136.03 | 15 46.63 |
| | 30 | Di | 2 48.75 | 4 24 33.79 | 4 4.62 | 21 38 28.2 | 9 4.6 | 136.16 | 15 46.48 |
| | 31 | Mi | 2 40.68 | 4 28 38.41 | 4 5.04 | 21 47 32.8 | 8 41.8 | 136.28 | 15 46.34 |
| Juni | 1 | Do | 2 32.19 | 4 32 43.45 | 4 5.44 | 21 56 14.6 | 8 18.9 | 136.40 | 15 46.20 |
| | 2 | Fr | 2 23.31 | 4 36 48.89 | | 22 4 33.5 | | 136.51 | 15 46.07 |

## Mittlerer Berliner Mittag.

| Monats- und Jahrestag | | Sternzeit | Mittleres Äqu. 1911.0 Länge | Diff. | Breite | Lg. Rad. v. | Diff. | Nut. ☾ in 0".01 dλ | dε |
|---|---|---|---|---|---|---|---|---|---|
| | | h m s | ° ′ ″ | ′ ″ | ″ | | | | |
| April 24 | 114 | 2 5 26.50 | 33 9 10.27 | 58 25.90 | −0.77 | 0.0025800 | 1172 | + 5 | +7 |
| 25 | 115 | 2 9 23.05 | 34 7 36.17 | 58 24.28 | −0.69 | 0.0026972 | 1159 | − 3 | +9 |
| 26 | 116 | 2 13 19.61 | 35 6 0.45 | 58 22.63 | −0.59 | 0.0028131 | 1145 | −12 | +9 |
| 27 | 117 | 2 17 16.16 | 36 4 23.08 | 58 20.93 | −0.47 | 0.0029276 | 1130 | −19 | +7 |
| 28 | 118 | 2 21 12.72 | 37 2 44.01 | 58 19.15 | −0.35 | 0.0030406 | 1114 | −23 | +3 |
| 29 | 119 | 2 25 9.27 | 38 1 3.16 | 58 17.32 | −0.21 | 0.0031520 | 1097 | −23 | −1 |
| 30 | 120 | 2 29 5.83 | 38 59 20.48 | 58 15.43 | −0.06 | 0.0032617 | 1081 | −19 | −5 |
| Mai 1 | 121 | 2 33 2.38 | 39 57 35.91 | 58 13.49 | +0.08 | 0.0033698 | 1065 | −11 | −7 |
| 2 | 122 | 2 36 58.94 | 40 55 49.40 | 58 11.50 | +0.19 | 0.0034763 | 1050 | − 1 | −9 |
| 3 | 123 | 2 40 55.49 | 41 54 0.90 | 58 9.49 | +0.27 | 0.0035813 | 1037 | +10 | −8 |
| 4 | 124 | 2 44 52.05 | 42 52 10.39 | 58 7.49 | +0.32 | 0.0036850 | 1024 | +19 | −6 |
| 5 | 125 | 2 48 48.60 | 43 50 17.88 | 58 5.51 | +0.34 | 0.0037874 | 1012 | +25 | −3 |
| 6 | 126 | 2 52 45.16 | 44 48 23.39 | 58 3.56 | +0.33 | 0.0038886 | 1002 | +26 | +1 |
| 7 | 127 | 2 56 41.72 | 45 46 26.95 | 58 1.66 | +0.29 | 0.0039888 | 992 | +24 | +5 |
| 8 | 128 | 3 0 38.27 | 46 44 28.61 | 57 59.81 | +0.21 | 0.0040880 | 983 | +16 | +8 |
| 9 | 129 | 3 4 34.83 | 47 42 28.42 | 57 58.02 | +0.11 | 0.0041863 | 975 | + 7 | +9 |
| 10 | 130 | 3 8 31.39 | 48 40 26.44 | 57 56.30 | 0.00 | 0.0042838 | 968 | − 3 | +8 |
| 11 | 131 | 3 12 27.94 | 49 38 22.74 | 57 54.64 | −0.12 | 0.0043806 | 959 | −11 | +6 |
| 12 | 132 | 3 16 24.50 | 50 36 17.38 | 57 53.07 | −0.26 | 0.0044765 | 951 | −16 | +2 |
| 13 | 133 | 3 20 21.06 | 51 34 10.45 | 57 51.58 | −0.39 | 0.0045716 | 943 | −17 | −2 |
| 14 | 134 | 3 24 17.61 | 52 32 2.03 | 57 50.14 | −0.51 | 0.0046659 | 934 | −14 | −6 |
| 15 | 135 | 3 28 14.17 | 53 29 52.17 | 57 48.78 | −0.62 | 0.0047593 | 925 | − 8 | −8 |
| 16 | 136 | 3 32 10.73 | 54 27 40.95 | 57 47.49 | −0.71 | 0.0048518 | 915 | − 1 | −9 |
| 17 | 137 | 3 36 7.28 | 55 25 28.44 | 57 46.25 | −0.78 | 0.0049433 | 904 | + 7 | −8 |
| 18 | 138 | 3 40 3.84 | 56 23 14.69 | 57 45.06 | −0.82 | 0.0050337 | 892 | +13 | −5 |
| 19 | 139 | 3 44 0.40 | 57 20 59.75 | 57 43.93 | −0.83 | 0.0051229 | 879 | +15 | −1 |
| 20 | 140 | 3 47 56.95 | 58 18 43.68 | 57 42.85 | −0.81 | 0.0052108 | 866 | +13 | +3 |
| 21 | 141 | 3 51 53.51 | 59 16 26.53 | 57 41.82 | −0.77 | 0.0052974 | 850 | + 7 | +6 |
| 22 | 142 | 3 55 50.07 | 60 14 8.35 | 57 40.81 | −0.70 | 0.0053824 | 833 | − 1 | +8 |
| 23 | 143 | 3 59 46.62 | 61 11 49.16 | 57 39.82 | −0.60 | 0.0054657 | 814 | −10 | +9 |
| 24 | 144 | 4 3 43.18 | 62 9 28.98 | 57 38.82 | −0.49 | 0.0055471 | 794 | −17 | +8 |
| 25 | 145 | 4 7 39.74 | 63 7 7.80 | 57 37.79 | −0.37 | 0.0056265 | 773 | −23 | +4 |
| 26 | 146 | 4 11 36.30 | 64 4 45.59 | 57 36.73 | −0.23 | 0.0057038 | 750 | −24 | 0 |
| 27 | 147 | 4 15 32.86 | 65 2 22.32 | 57 35.62 | −0.09 | 0.0057788 | 726 | −22 | −4 |
| 28 | 148 | 4 19 29.41 | 65 59 57.94 | 57 34.46 | +0.04 | 0.0058514 | 703 | −14 | −7 |
| 29 | 149 | 4 23 25.97 | 66 57 32.40 | 57 33.25 | +0.16 | 0.0059217 | 679 | − 4 | −9 |
| 30 | 150 | 4 27 22.53 | 67 55 5.65 | 57 32.00 | +0.26 | 0.0059896 | 656 | + 6 | −9 |
| 31 | 151 | 4 31 19.09 | 68 52 37.65 | 57 30.72 | +0.33 | 0.0060552 | 634 | +16 | −7 |
| Juni 1 | 152 | 4 35 15.64 | 69 50 8.37 | 57 29.42 | +0.36 | 0.0061186 | 613 | +24 | −4 |
| 2 | 153 | 4 39 12.20 | 70 47 37.79 | | +0.36 | 0.0061799 | | +26 | 0 |

## Mittlerer Berliner Mittag.

| Monats- und Wochentag | | Zeitgleichung M. Zt. — W. Zt. | Scheinb. AR. | Diff. | Scheinb. Dekl. | Diff. | Durchg.-Dauer St.-Zt. | Halbm. |
|---|---|---|---|---|---|---|---|---|
| | | m s | h m s | m s | ° ′ ″ | ′ ″ | ″ | ′ ″ |
| Juni 1 | Do | −2 32.19 | 4 32 43.45 | 4 5.44 | +21 56 14.6 | 8 18.9 | 136.40 | 15 46.20 |
| 2 | Fr | 2 23.31 | 4 36 48.89 | 4 5.82 | 22 4 33.5 | 7 55.8 | 136.51 | 15 46.07 |
| 3 | Sa | 2 14.05 | 4 40 54.71 | 4 6.18 | 22 12 29.3 | 7 32.4 | 136.62 | 15 45.94 |
| 4 | So | 2 4.43 | 4 45 0.89 | 4 6.53 | 22 20 1.7 | 7 9.0 | 136.73 | 15 45.82 |
| 5 | Mo | 1 54.46 | 4 49 7.42 | 4 6.85 | 22 27 10.7 | 6 45.4 | 136.83 | 15 45.70 |
| 6 | Di | −1 44.17 | 4 53 14.27 | 4 7.16 | +22 33 56.1 | 6 21.7 | 136.92 | 15 45.58 |
| 7 | Mi | 1 33.56 | 4 57 21.43 | 4 7.46 | 22 40 17.8 | 5 57.8 | 137.01 | 15 45.46 |
| 8 | Do | 1 22.66 | 5 1 28.89 | 4 7.74 | 22 46 15.6 | 5 33.8 | 137.09 | 15 45.35 |
| 9 | Fr | 1 11.48 | 5 5 36.63 | 4 8.00 | 22 51 49.4 | 5 9.8 | 137.17 | 15 45.24 |
| 10 | Sa | 1 0.04 | 5 9 44.63 | 4 8.24 | 22 56 59.2 | 4 45.6 | 137.24 | 15 45.14 |
| 11 | So | −0 48.36 | 5 13 52.87 | 4 8.47 | +23 1 44.8 | 4 21.4 | 137.31 | 15 45.04 |
| 12 | Mo | 0 36.45 | 5 18 1.34 | 4 8.67 | 23 6 6.2 | 3 57.0 | 137.37 | 15 44.94 |
| 13 | Di | 0 24.33 | 5 22 10.01 | 4 8.86 | 23 10 3.2 | 3 32.5 | 137.42 | 15 44.84 |
| 14 | Mi | −0 12.03 | 5 26 18.87 | 4 9.03 | 23 13 35.7 | 3 8.0 | 137.47 | 15 44.75 |
| 15 | Do | +0 0.44 | 5 30 27.90 | 4 9.18 | 23 16 43.7 | 2 43.5 | 137.51 | 15 44.66 |
| 16 | Fr | +0 13.06 | 5 34 37.08 | 4 9.31 | +23 19 27.2 | 2 18.9 | 137.55 | 15 44.58 |
| 17 | Sa | 0 25.81 | 5 38 46.39 | 4 9.42 | 23 21 46.1 | 1 54.2 | 137.58 | 15 44.49 |
| 18 | So | 0 38.67 | 5 42 55.81 | 4 9.51 | 23 23 40.3 | 1 29.5 | 137.60 | 15 44.41 |
| 19 | Mo | 0 51.63 | 5 47 5.32 | 4 9.58 | 23 25 9.8 | 1 4.7 | 137.61 | 15 44.34 |
| 20 | Di | 1 4.65 | 5 51 14.90 | 4 9.62 | 23 26 14.5 | 0 39.9 | 137.62 | 15 44.27 |
| 21 | Mi | +1 17.71 | 5 55 24.52 | 4 9.64 | +23 26 54.4 | 0 15.1 | 137.62 | 15 44.20 |
| 22 | Do | 1 30.79 | 5 59 34.16 | 4 9.63 | 23 27 9.5 | 0 9.7 | 137.62 | 15 44.14 |
| 23 | Fr | 1 43.86 | 6 3 43.79 | 4 9.60 | 23 26 59.8 | 0 34.5 | 137.61 | 15 44.08 |
| 24 | Sa | 1 56.90 | 6 7 53.39 | 4 9.54 | 23 26 25.3 | 0 59.3 | 137.59 | 15 44.03 |
| 25 | So | 2 9.88 | 6 12 2.93 | 4 9.45 | 23 25 26.0 | 1 24.1 | 137.57 | 15 43.99 |
| 26 | Mo | +2 22.77 | 6 16 12.38 | 4 9.32 | +23 24 1.9 | 1 48.9 | 137.54 | 15 43.95 |
| 27 | Di | 2 35.54 | 6 20 21.70 | 4 9.17 | 23 22 13.0 | 2 13.5 | 137.50 | 15 43.92 |
| 28 | Mi | 2 48.15 | 6 24 30.87 | 4 9.00 | 23 19 59.5 | 2 38.2 | 137.46 | 15 43.89 |
| 29 | Do | 3 0.59 | 6 28 39.87 | 4 8.80 | 23 17 21.3 | 3 2.7 | 137.41 | 15 43.87 |
| 30 | Fr | 3 12.83 | 6 32 48.67 | 4 8.57 | 23 14 18.6 | 3 27.2 | 137.35 | 15 43.85 |
| Juli 1 | Sa | +3 24.84 | 6 36 57.24 | 4 8.31 | +23 10 51.4 | 3 51.6 | 137.29 | 15 43.84 |
| 2 | So | 3 36.59 | 6 41 5.55 | 4 8.03 | 23 6 59.8 | 4 15.8 | 137.22 | 15 43.83 |
| 3 | Mo | 3 48.07 | 6 45 13.58 | 4 7.74 | 23 2 44.0 | 4 40.0 | 137.15 | 15 43.83 |
| 4 | Di | 3 59.25 | 6 49 21.32 | 4 7.42 | 22 58 4.0 | 5 3.9 | 137.07 | 15 43.83 |
| 5 | Mi | 4 10.11 | 6 53 28.74 | 4 7.09 | 22 53 0.1 | 5 27.8 | 136.99 | 15 43.84 |
| 6 | Do | +4 20.64 | 6 57 35.83 | 4 6.74 | +22 47 32.3 | 5 51.6 | 136.90 | 15 43.85 |
| 7 | Fr | 4 30.82 | 7 1 42.57 | 4 6.36 | 22 41 40.7 | 6 15.1 | 136.80 | 15 43.87 |
| 8 | Sa | 4 40.63 | 7 5 48.93 | 4 5.98 | 22 35 25.6 | 6 38.5 | 136.70 | 15 43.89 |
| 9 | So | 4 50.05 | 7 9 54.91 | 4 5.58 | 22 28 47.1 | 7 1.8 | 136.59 | 15 43.91 |
| 10 | Mo | 4 59.07 | 7 14 0.49 | | 22 21 45.3 | | 136.48 | 15 43.93 |

## Mittlerer Berliner Mittag.

| Monats- und Jahrestag | | | Sternzeit | Mittleres Äqu. 1911.0 Länge | Diff. | Breite | Lg. Rad. v. | Diff. | Nut. ☾ in 0″.01 dλ | dε |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | h m s | ° ′ ″ | ′ ″ | ″ | | | | |
| Juni | 1 | 152 | 4 35 15.64 | 69 50 8.37 | 57 29.42 | +0.36 | 0.0061186 | 613 | +24 | −4 |
| | 2 | 153 | 4 39 12.20 | 70 47 37.79 | 57 28.13 | +0.36 | 0.0061799 | 593 | +26 | 0 |
| | 3 | 154 | 4 43 8.76 | 71 45 5.92 | 57 26.86 | +0.32 | 0.0062392 | 574 | +24 | +4 |
| | 4 | 155 | 4 47 5.32 | 72 42 32.78 | 57 25.63 | +0.26 | 0.0062966 | 557 | +19 | +7 |
| | 5 | 156 | 4 51 1.88 | 73 39 58.41 | 57 24.45 | +0.17 | 0.0063523 | 541 | +10 | +9 |
| | 6 | 157 | 4 54 58.44 | 74 37 22.86 | 57 23.33 | +0.07 | 0.0064064 | 525 | 0 | +8 |
| | 7 | 158 | 4 58 54.99 | 75 34 46.19 | 57 22.27 | −0.05 | 0.0064589 | 511 | − 8 | +6 |
| | 8 | 159 | 5 2 51.55 | 76 32 8.46 | 57 21.29 | −0.18 | 0.0065100 | 496 | −14 | +3 |
| | 9 | 160 | 5 6 48.11 | 77 29 29.75 | 57 20.39 | −0.30 | 0.0065596 | 482 | −16 | −1 |
| | 10 | 161 | 5 10 44.67 | 78 26 50.14 | 57 19.56 | −0.42 | 0.0066078 | 468 | −15 | −5 |
| | 11 | 162 | 5 14 41.23 | 79 24 9.70 | 57 18.80 | −0.53 | 0.0066546 | 454 | −10 | −7 |
| | 12 | 163 | 5 18 37.79 | 80 21 28.50 | 57 18.12 | −0.63 | 0.0067000 | 440 | − 3 | −9 |
| | 13 | 164 | 5 22 34.34 | 81 18 46.62 | 57 17.52 | −0.70 | 0.0067440 | 426 | + 5 | −8 |
| | 14 | 165 | 5 26 30.90 | 82 16 4.14 | 57 16.99 | −0.75 | 0.0067866 | 411 | +11 | −6 |
| | 15 | 166 | 5 30 27.46 | 83 13 21.13 | 57 16.54 | −0.77 | 0.0068277 | 396 | +15 | −2 |
| | 16 | 167 | 5 34 24.02 | 84 10 37.67 | 57 16.16 | −0.76 | 0.0068673 | 380 | +14 | +2 |
| | 17 | 168 | 5 38 20.58 | 85 7 53.83 | 57 15.85 | −0.72 | 0.0069053 | 364 | +10 | +5 |
| | 18 | 169 | 5 42 17.14 | 86 5 9.68 | 57 15.61 | −0.66 | 0.0069417 | 345 | + 2 | +8 |
| | 19 | 170 | 5 46 13.69 | 87 2 25.29 | 57 15.42 | −0.57 | 0.0069762 | 325 | − 7 | +9 |
| | 20 | 171 | 5 50 10.25 | 87 59 40.71 | 57 15.25 | −0.46 | 0.0070087 | 305 | −15 | +8 |
| | 21 | 172 | 5 54 6.81 | 88 56 55.96 | 57 15.11 | −0.34 | 0.0070392 | 283 | −22 | +5 |
| | 22 | 173 | 5 58 3.37 | 89 54 11.07 | 57 14.99 | −0.21 | 0.0070675 | 259 | −25 | +2 |
| | 23 | 174 | 6 1 59.93 | 90 51 26.06 | 57 14.86 | −0.07 | 0.0070934 | 234 | −23 | −2 |
| | 24 | 175 | 6 5 56.49 | 91 48 40.92 | 57 14.69 | +0.06 | 0.0071168 | 209 | −17 | −6 |
| | 25 | 176 | 6 9 53.05 | 92 45 55.61 | 57 14.47 | +0.18 | 0.0071377 | 181 | − 8 | −8 |
| | 26 | 177 | 6 13 49.61 | 93 43 10.08 | 57 14.21 | +0.28 | 0.0071558 | 154 | + 2 | −9 |
| | 27 | 178 | 6 17 46.16 | 94 40 24.29 | 57 13.90 | +0.35 | 0.0071712 | 127 | +13 | −8 |
| | 28 | 179 | 6 21 42.72 | 95 37 38.19 | 57 13.56 | +0.39 | 0.0071839 | 100 | +21 | −5 |
| | 29 | 180 | 6 25 39.28 | 96 34 51.75 | 57 13.20 | +0.40 | 0.0071939 | 75 | +25 | −1 |
| | 30 | 181 | 6 29 35.84 | 97 32 4.95 | 57 12.81 | +0.38 | 0.0072014 | 51 | +25 | +3 |
| Juli | 1 | 182 | 6 33 32.40 | 98 29 17.76 | 57 12.42 | +0.33 | 0.0072065 | 28 | +21 | +6 |
| | 2 | 183 | 6 37 28.96 | 99 26 30.18 | 57 12.06 | +0.25 | 0.0072093 | 7 | +13 | +8 |
| | 3 | 184 | 6 41 25.51 | 100 23 42.24 | 57 11.74 | +0.15 | 0.0072100 | 14 | + 4 | +9 |
| | 4 | 185 | 6 45 22.07 | 101 20 53.98 | 57 11.47 | +0.04 | 0.0072086 | 33 | − 5 | +7 |
| | 5 | 186 | 6 49 18.63 | 102 18 5.45 | 57 11.26 | −0.08 | 0.0072053 | 51 | −13 | +4 |
| | 6 | 187 | 6 53 15.19 | 103 15 16.71 | 57 11.11 | −0.20 | 0.0072002 | 69 | −16 | 0 |
| | 7 | 188 | 6 57 11.75 | 104 12 27.82 | 57 11.03 | −0.32 | 0.0071933 | 85 | −16 | −4 |
| | 8 | 189 | 7 1 8.31 | 105 9 38.85 | 57 11.01 | −0.43 | 0.0071848 | 101 | −11 | −7 |
| | 9 | 190 | 7 5 4.86 | 106 6 49.86 | 57 11.06 | −0.52 | 0.0071747 | 117 | − 5 | −9 |
| | 10 | 191 | 7 9 1.42 | 107 4 0.92 | | −0.59 | 0.0071630 | | + 2 | −9 |

## Mittlerer Berliner Mittag.

| Monats- und Wochentag | | | Zeitgleichung M. Zt. — W. Zt. | Scheinb. AR. | Diff. | Scheinb. Dekl. | Diff. | Durchg.-Dauer St.-Zt. | Halbm. |
|---|---|---|---|---|---|---|---|---|---|
| | | | m s | h m s | m s | ° ′ ″ | ′ ″ | s | ′ ″ |
| Juli | 9 | So | +4 50.05 | 7 9 54.91 | 4 5.58 | +22 28 47.1 | 7 1.8 | 136.59 | 15 43.91 |
| | 10 | Mo | 4 59.07 | 7 14 0.49 | 4 5.17 | 22 21 45.3 | 7 25.0 | 136.48 | 15 43.93 |
| | 11 | Di | 5 7.68 | 7 18 5.66 | 4 4.74 | 22 14 20.3 | 7 47.9 | 136.36 | 15 43.96 |
| | 12 | Mi | 5 15.86 | 7 22 10.40 | 4 4.29 | 22 6 32.4 | 8 10.7 | 136.24 | 15 43.99 |
| | 13 | Do | 5 23.60 | 7 26 14.69 | 4 3.84 | 21 58 21.7 | 8 33.2 | 136.11 | 15 44.03 |
| | 14 | Fr | +5 30.89 | 7 30 18.53 | 4 3.39 | +21 49 48.5 | 8 55.6 | 135.98 | 15 44.07 |
| | 15 | Sa | 5 37.71 | 7 34 21.92 | 4 2.91 | 21 40 52.9 | 9 17.8 | 135.85 | 15 44.11 |
| | 16 | So | 5 44.06 | 7 38 24.83 | 4 2.42 | 21 31 35.1 | 9 39.8 | 135.71 | 15 44.15 |
| | 17 | Mo | 5 49.93 | 7 42 27.25 | 4 1.93 | 21 21 55.3 | 10 1.6 | 135.57 | 15 44.20 |
| | 18 | Di | 5 55.30 | 7 46 29.18 | 4 1.43 | 21 11 53.7 | 10 23.2 | 135.42 | 15 44.26 |
| | 19 | Mi | +6 0.17 | 7 50 30.61 | 4 0.91 | +21 1 30.5 | 10 44.6 | 135.27 | 15 44.31 |
| | 20 | Do | 6 4.52 | 7 54 31.52 | 4 0.38 | 20 50 45.9 | 11 5.7 | 135.11 | 15 44.37 |
| | 21 | Fr | 6 8.34 | 7 58 31.90 | 3 59.84 | 20 39 40.2 | 11 26.7 | 134.95 | 15 44.44 |
| | 22 | Sa | 6 11.63 | 8 2 31.74 | 3 59.30 | 20 28 13.5 | 11 47.4 | 134.79 | 15 44.51 |
| | 23 | So | 6 14.37 | 8 6 31.04 | 3 58.74 | 20 16 26.1 | 12 7.9 | 134.63 | 15 44.59 |
| | 24 | Mo | +6 16.55 | 8 10 29.78 | 3 58.17 | +20 4 18.2 | 12 28.0 | 134.47 | 15 44.67 |
| | 25 | Di | 6 18.16 | 8 14 27.95 | 3 57.58 | 19 51 50.2 | 12 47.9 | 134.31 | 15 44.76 |
| | 26 | Mi | 6 19.19 | 8 18 25.53 | 3 56.99 | 19 39 2.3 | 13 7.5 | 134.14 | 15 44.85 |
| | 27 | Do | 6 19.62 | 8 22 22.52 | 3 56.38 | 19 25 54.8 | 13 26.9 | 133.97 | 15 44.95 |
| | 28 | Fr | 6 19.44 | 8 26 18.90 | 3 55.77 | 19 12 27.9 | 13 45.9 | 133.80 | 15 45.05 |
| | 29 | Sa | +6 18.65 | 8 30 14.67 | 3 55.15 | +18 58 42.0 | 14 4.7 | 133.63 | 15 45.16 |
| | 30 | So | 6 17.25 | 8 34 9.82 | 3 54.53 | 18 44 37.3 | 14 23.2 | 133.46 | 15 45.28 |
| | 31 | Mo | 6 15.23 | 8 38 4.35 | 3 53.91 | 18 30 14.1 | 14 41.3 | 133.29 | 15 45.40 |
| Aug. | 1 | Di | 6 12.58 | 8 41 58.26 | 3 53.28 | 18 15 32.8 | 14 59.2 | 133.11 | 15 45.52 |
| | 2 | Mi | 6 9.30 | 8 45 51.54 | 3 52.65 | 18 0 33.6 | 15 16.8 | 132.94 | 15 45.65 |
| | 3 | Do | +6 5.40 | 8 49 44.19 | 3 52.04 | +17 45 16.8 | 15 34.0 | 132.77 | 15 45.78 |
| | 4 | Fr | 6 0.88 | 8 53 36.23 | 3 51.42 | 17 29 42.8 | 15 51.0 | 132.59 | 15 45.92 |
| | 5 | Sa | 5 55.74 | 8 57 27.65 | 3 50.81 | 17 13 51.8 | 16 7.7 | 132.42 | 15 46.06 |
| | 6 | So | 5 49.99 | 9 1 18.46 | 3 50.19 | 16 57 44.1 | 16 24.1 | 132.25 | 15 46.20 |
| | 7 | Mo | 5 43.63 | 9 5 8.65 | 3 49.60 | 16 41 20.0 | 16 40.2 | 132.08 | 15 46.34 |
| | 8 | Di | +5 36.67 | 9 8 58.25 | 3 49.00 | +16 24 39.8 | 16 56.0 | 131.91 | 15 46.49 |
| | 9 | Mi | 5 29.12 | 9 12 47.25 | 3 48.42 | 16 7 43.8 | 17 11.5 | 131.74 | 15 46.64 |
| | 10 | Do | 5 20.98 | 9 16 35.67 | 3 47.84 | 15 50 32.3 | 17 26.7 | 131.57 | 15 46.80 |
| | 11 | Fr | 5 12.26 | 9 20 23.51 | 3 47.27 | 15 33 5.6 | 17 41.7 | 131.40 | 15 46.95 |
| | 12 | Sa | 5 2.98 | 9 24 10.78 | 3 46.72 | 15 15 23.9 | 17 56.4 | 131.23 | 15 47.11 |
| | 13 | So | +4 53.15 | 9 27 57.50 | 3 46.18 | +14 57 27.5 | 18 10.7 | 131.07 | 15 47.27 |
| | 14 | Mo | 4 42.77 | 9 31 43.68 | 3 45.64 | 14 39 16.8 | 18 24.8 | 130.91 | 15 47.43 |
| | 15 | Di | 4 31.85 | 9 35 29.32 | 3 45.12 | 14 20 52.0 | 18 38.6 | 130.75 | 15 47.60 |
| | 16 | Mi | 4 20.41 | 9 39 14.44 | 3 44.62 | 14 2 13.4 | 18 52.1 | 130.59 | 15 47.77 |
| | 17 | Do | 4 8.47 | 9 42 59.06 | | 13 43 21.3 | | 130.44 | 15 47.94 |

## Mittlerer Berliner Mittag.

| Monats- und Jahrestag | | Sternzeit | Mittleres Äqu. 1911.0 Länge | Diff. | Breite | Lg. Rad. v. | Diff. | Nut. ☾ in 0".01 dλ | dε |
|---|---|---|---|---|---|---|---|---|---|
| | | h m s | ° ′ ″ | ′ ″ | ″ | | | | |
| Juli 9 | 190 | 7 5 4.86 | 106 6 49.86 | 57 11.06 | −0.52 | 0.0071747 | 117 | − 5 | −9 |
| 10 | 191 | 7 9 1.42 | 107 4 0.92 | 57 11.20 | −0.59 | 0.0071630 | 132 | + 2 | −9 |
| 11 | 192 | 7 12 57.98 | 108 1 12.12 | 57 11.41 | −0.64 | 0.0071498 | 147 | +10 | −7 |
| 12 | 193 | 7 16 54.54 | 108 58 23.53 | 57 11.71 | −0.67 | 0.0071351 | 162 | +15 | −4 |
| 13 | 194 | 7 20 51.10 | 109 55 35.24 | 57 12.09 | −0.67 | 0.0071189 | 177 | +15 | 0 |
| 14 | 195 | 7 24 47.65 | 110 52 47.33 | 57 12.55 | −0.63 | 0.0071012 | 193 | +12 | +4 |
| 15 | 196 | 7 28 44.21 | 111 49 59.88 | 57 13.09 | −0.57 | 0.0070819 | 209 | + 5 | +7 |
| 16 | 197 | 7 32 40.77 | 112 47 12.97 | 57 13.70 | −0.49 | 0.0070610 | 226 | − 4 | +9 |
| 17 | 198 | 7 36 37.33 | 113 44 26.67 | 57 14.39 | −0.39 | 0.0070384 | 244 | −13 | +8 |
| 18 | 199 | 7 40 33.89 | 114 41 41.06 | 57 15.13 | −0.27 | 0.0070140 | 262 | −20 | +6 |
| 19 | 200 | 7 44 30.44 | 115 38 56.19 | 57 15.90 | −0.14 | 0.0069878 | 283 | −24 | +3 |
| 20 | 201 | 7 48 27.00 | 116 36 12.09 | 57 16.71 | 0.00 | 0.0069595 | 304 | −24 | −1 |
| 21 | 202 | 7 52 23.56 | 117 33 28.80 | 57 17.53 | +0.13 | 0.0069291 | 327 | −20 | −5 |
| 22 | 203 | 7 56 20.12 | 118 30 46.33 | 57 18.34 | +0.24 | 0.0068964 | 352 | −12 | −8 |
| 23 | 204 | 8 0 16.67 | 119 28 4.67 | 57 19.12 | +0.34 | 0.0068612 | 377 | − 2 | −9 |
| 24 | 205 | 8 4 13.23 | 120 25 23.79 | 57 19.86 | +0.41 | 0.0068235 | 402 | + 9 | −8 |
| 25 | 206 | 8 8 9.79 | 121 22 43.65 | 57 20.55 | +0.45 | 0.0067833 | 429 | +18 | −6 |
| 26 | 207 | 8 12 6.35 | 122 20 4.20 | 57 21.20 | +0.46 | 0.0067404 | 455 | +25 | −2 |
| 27 | 208 | 8 16 2.90 | 123 17 25.40 | 57 21.81 | +0.44 | 0.0066949 | 480 | +26 | +2 |
| 28 | 209 | 8 19 59.46 | 124 14 47.21 | 57 22.39 | +0.40 | 0.0066469 | 504 | +22 | +5 |
| 29 | 210 | 8 23 56.02 | 125 12 9.60 | 57 22.94 | +0.34 | 0.0065965 | 527 | +16 | +8 |
| 30 | 211 | 8 27 52.57 | 126 9 32.54 | 57 23.49 | +0.24 | 0.0065438 | 549 | + 7 | +9 |
| 31 | 212 | 8 31 49.13 | 127 6 56.03 | 57 24.07 | +0.12 | 0.0064889 | 569 | − 3 | +8 |
| Aug. 1 | 213 | 8 35 45.69 | 128 4 20.10 | 57 24.68 | −0.01 | 0.0064320 | 588 | −10 | +5 |
| 2 | 214 | 8 39 42.24 | 129 1 44.78 | 57 25.33 | −0.12 | 0.0063732 | 606 | −15 | +2 |
| 3 | 215 | 8 43 38.80 | 129 59 10.11 | 57 26.01 | −0.23 | 0.0063126 | 623 | −16 | −2 |
| 4 | 216 | 8 47 35.35 | 130 56 36.12 | 57 26.73 | −0.34 | 0.0062503 | 638 | −12 | −6 |
| 5 | 217 | 8 51 31.91 | 131 54 2.85 | 57 27.51 | −0.43 | 0.0061865 | 653 | − 7 | −8 |
| 6 | 218 | 8 55 28.47 | 132 51 30.36 | 57 28.37 | −0.50 | 0.0061212 | 666 | 0 | −9 |
| 7 | 219 | 8 59 25.02 | 133 48 58.73 | 57 29.29 | −0.55 | 0.0060546 | 679 | + 8 | −8 |
| 8 | 220 | 9 3 21.58 | 134 46 28.02 | 57 30.29 | −0.58 | 0.0059867 | 692 | +13 | −5 |
| 9 | 221 | 9 7 18.14 | 135 43 58.31 | 57 31.36 | −0.58 | 0.0059175 | 703 | +15 | −1 |
| 10 | 222 | 9 11 14.69 | 136 41 29.67 | 57 32.50 | −0.55 | 0.0058472 | 715 | +13 | +3 |
| 11 | 223 | 9 15 11.25 | 137 39 2.17 | 57 33.73 | −0.50 | 0.0057757 | 726 | + 8 | +6 |
| 12 | 224 | 9 19 7.80 | 138 36 35.90 | 57 35.04 | −0.42 | 0.0057031 | 738 | − 1 | +8 |
| 13 | 225 | 9 23 4.36 | 139 34 10.94 | 57 36.44 | −0.31 | 0.0056293 | 749 | −10 | +9 |
| 14 | 226 | 9 27 0.91 | 140 31 47.38 | 57 37.92 | −0.19 | 0.0055544 | 762 | −18 | +7 |
| 15 | 227 | 9 30 57.47 | 141 29 25.30 | 57 39.45 | −0.06 | 0.0054782 | 775 | −24 | +4 |
| 16 | 228 | 9 34 54.03 | 142 27 4.75 | 57 41.03 | +0.08 | 0.0054007 | 790 | −25 | 0 |
| 17 | 229 | 9 38 50.58 | 143 24 45.78 | | +0.21 | 0.0053217 | | −22 | −4 |

## Mittlerer Berliner Mittag.

| Monats- und Wochentag | | Zeitgleichung M. Zt. — W. Zt. | Scheinb. AR. | Diff. | Scheinb. Dekl. | Diff. | Durchg.-Dauer St.-Zt. | Halbm. |
|---|---|---|---|---|---|---|---|---|
| | | m s | h m s | m s | ° ′ ″ | ′ ″ | s | ′ ″ |
| Aug. 16 | Mi | +4 20.41 | 9 39 14.44 | 3 44.62 | +14 2 13.4 | 18 52.1 | 130.59 | 15 47.77 |
| 17 | Do | 4 8.47 | 9 42 59.06 | 3 44.11 | 13 43 21.3 | 19 5.2 | 130.44 | 15 47.94 |
| 18 | Fr | 3 56.03 | 9 46 43.17 | 3 43.62 | 13 24 16.1 | 19 18.2 | 130.29 | 15 48.12 |
| 19 | Sa | 3 43.10 | 9 50 26.79 | 3 43.14 | 13 4 57.9 | 19 30.8 | 130.14 | 15 48.30 |
| 20 | So | 3 29.68 | 9 54 9.93 | 3 42.67 | 12 45 27.1 | 19 43.0 | 130.00 | 15 48.48 |
| 21 | Mo | +3 15.79 | 9 57 52.60 | 3 42.21 | +12 25 44.1 | 19 54.9 | 129.86 | 15 48.67 |
| 22 | Di | 3 1.44 | 10 1 34.81 | 3 41.75 | 12 5 49.2 | 20 6.5 | 129.72 | 15 48.86 |
| 23 | Mi | 2 46.64 | 10 5 16.56 | 3 41.30 | 11 45 42.7 | 20 17.8 | 129.59 | 15 49.06 |
| 24 | Do | 2 31.39 | 10 8 57.86 | 3 40.87 | 11 25 24.9 | 20 28.7 | 129.46 | 15 49.26 |
| 25 | Fr | 2 15.70 | 10 12 38.73 | 3 40.45 | 11 4 56.2 | 20 39.2 | 129.33 | 15 49.46 |
| 26 | Sa | +1 59.59 | 10 16 19.18 | 3 40.03 | +10 44 17.0 | 20 49.4 | 129.21 | 15 49.67 |
| 27 | So | 1 43.07 | 10 19 59.21 | 3 39.62 | 10 23 27.6 | 20 59.2 | 129.09 | 15 49.89 |
| 28 | Mo | 1 26.14 | 10 23 38.83 | 3 39.23 | 10 2 28.4 | 21 8.8 | 128.98 | 15 50.11 |
| 29 | Di | 1 8.82 | 10 27 18.06 | 3 38.85 | 9 41 19.6 | 21 17.9 | 128.87 | 15 50.33 |
| 30 | Mi | 0 51.12 | 10 30 56.91 | 3 38.49 | 9 20 1.7 | 21 26.8 | 128.76 | 15 50.55 |
| 31 | Do | +0 33.06 | 10 34 35.40 | 3 38.14 | + 8 58 34.9 | 21 35.3 | 128.66 | 15 50.78 |
| Sept. 1 | Fr | +0 14.65 | 10 38 13.54 | 3 37.82 | 8 36 59.6 | 21 43.4 | 128.57 | 15 51.01 |
| 2 | Sa | —0 4.09 | 10 41 51.36 | 3 37.51 | 8 15 16.2 | 21 51.3 | 128.48 | 15 51.25 |
| 3 | So | 0 23.14 | 10 45 28.87 | 3 37.22 | 7 53 24.9 | 21 58.9 | 128.40 | 15 51.48 |
| 4 | Mo | 0 42.48 | 10 49 6.09 | 3 36.94 | 7 31 26.0 | 22 6.1 | 128.32 | 15 51.72 |
| 5 | Di | —1 2.09 | 10 52 43.03 | 3 36.69 | + 7 9 19.9 | 22 13.0 | 128.25 | 15 51.96 |
| 6 | Mi | 1 21.96 | 10 56 19.72 | 3 36.46 | 6 47 6.9 | 22 19.6 | 128.18 | 15 52.20 |
| 7 | Do | 1 42.06 | 10 59 56.18 | 3 36.24 | 6 24 47.3 | 22 25.9 | 128.11 | 15 52.44 |
| 8 | Fr | 2 2.37 | 11 3 32.42 | 3 36.06 | 6 2 21.4 | 22 31.9 | 128.05 | 15 52.69 |
| 9 | Sa | 2 22.86 | 11 7 8.48 | 3 35.90 | 5 39 49.5 | 22 37.6 | 128.00 | 15 52.93 |
| 10 | So | —2 43.51 | 11 10 44.38 | 3 35.75 | + 5 17 11.9 | 22 43.0 | 127.95 | 15 53.17 |
| 11 | Mo | 3 4.31 | 11 14 20.13 | 3 35.62 | 4 54 28.9 | 22 48.1 | 127.91 | 15 53.42 |
| 12 | Di | 3 25.24 | 11 17 55.75 | 3 35.53 | 4 31 40.8 | 22 52.8 | 127.87 | 15 53.67 |
| 13 | Mi | 3 46.27 | 11 21 31.28 | 3 35.45 | 4 8 48.0 | 22 57.4 | 127.84 | 15 53.91 |
| 14 | Do | 4 7.37 | 11 25 6.73 | 3 35.39 | 3 45 50.6 | 23 1.6 | 127.81 | 15 54.16 |
| 15 | Fr | —4 28.53 | 11 28 42.12 | 3 35.36 | + 3 22 49.0 | 23 5.4 | 127.79 | 15 54.41 |
| 16 | Sa | 4 49.73 | 11 32 17.48 | 3 35.34 | 2 59 43.6 | 23 9.0 | 127.78 | 15 54.66 |
| 17 | So | 5 10.94 | 11 35 52.82 | 3 35.35 | 2 36 34.6 | 23 12.2 | 127.77 | 15 54.92 |
| 18 | Mo | 5 32.15 | 11 39 28.17 | 3 35.36 | 2 13 22.4 | 23 15.1 | 127.77 | 15 55.17 |
| 19 | Di | 5 53.34 | 11 43 3.53 | 3 35.40 | 1 50 7.3 | 23 17.6 | 127.77 | 15 55.43 |
| 20 | Mi | —6 14.49 | 11 46 38.93 | 3 35.46 | + 1 26 49.7 | 23 19.7 | 127.78 | 15 55.69 |
| 21 | Do | 6 35.59 | 11 50 14.39 | 3 35.52 | 1 3 30.0 | 23 21.4 | 127.80 | 15 55.96 |
| 22 | Fr | 6 56.62 | 11 53 49.91 | 3 35.61 | 0 40 8.6 | 23 22.9 | 127.82 | 15 56.22 |
| 23 | Sa | 7 17.56 | 11 57 25.52 | 3 35.72 | + 0 16 45.7 | 23 23.9 | 127.85 | 15 56.49 |
| 24 | So | 7 38.40 | 12 1 1.24 | | — 0 6 38.2 | | 127.89 | 15 56.76 |

## Mittlerer Berliner Mittag.

| Monats- und Jahrestag | | Sternzeit | Mittleres Äqu. 1911.0 Länge | Diff. | Breite | Lg. Rad. v. | Diff. | Nut. ☾ in 0″.01 dλ | dε |
|---|---|---|---|---|---|---|---|---|---|
| | | h m s | ° ′ ″ | ′ ″ | ″ | | | | |
| Aug. 16 | 228 | 9 34 54.03 | 142 27 4.75 | 57 41.03 | +0.08 | 0.0054007 | 790 | −25 | 0 |
| 17 | 229 | 9 38 50.58 | 143 24 45.78 | 57 42.65 | +0.21 | 0.0053217 | 806 | −22 | −4 |
| 18 | 230 | 9 42 47.14 | 144 22 28.43 | 57 44.30 | +0.33 | 0.0052411 | 822 | −15 | −7 |
| 19 | 231 | 9 46 43.69 | 145 20 12.73 | 57 45.95 | +0.44 | 0.0051589 | 840 | − 5 | −9 |
| 20 | 232 | 9 50 40.25 | 146 17 58.68 | 57 47.59 | +0.52 | 0.0050749 | 859 | + 5 | −9 |
| 21 | 233 | 9 54 36.80 | 147 15 46.27 | 57 49.21 | +0.58 | 0.0049890 | 879 | +16 | −7 |
| 22 | 234 | 9 58 33.36 | 148 13 35.48 | 57 50.77 | +0.60 | 0.0049011 | 900 | +23 | −4 |
| 23 | 235 | 10 2 29.91 | 149 11 26.25 | 57 52.29 | +0.59 | 0.0048111 | 921 | +25 | 0 |
| 24 | 236 | 10 6 26.47 | 150 9 18.54 | 57 53.76 | +0.54 | 0.0047190 | 941 | +24 | +4 |
| 25 | 237 | 10 10 23.03 | 151 7 12.30 | 57 55.19 | +0.46 | 0.0046249 | 961 | +19 | +7 |
| 26 | 238 | 10 14 19.58 | 152 5 7.49 | 57 56.58 | +0.37 | 0.0045288 | 980 | +10 | +9 |
| 27 | 239 | 10 18 16.14 | 153 3 4.07 | 57 57.93 | +0.26 | 0.0044308 | 997 | + 1 | +8 |
| 28 | 240 | 10 22 12.69 | 154 1 2.00 | 57 59.28 | +0.14 | 0.0043311 | 1014 | − 8 | +6 |
| 29 | 241 | 10 26 9.24 | 154 59 1.28 | 58 0.62 | +0.01 | 0.0042297 | 1029 | −14 | +3 |
| 30 | 242 | 10 30 5.79 | 155 57 1.90 | 58 1.97 | −0.11 | 0.0041268 | 1042 | −16 | −1 |
| 31 | 243 | 10 34 2.35 | 156 55 3.87 | 58 3.35 | −0.22 | 0.0040226 | 1054 | −14 | −5 |
| Sept. 1 | 244 | 10 37 58.90 | 157 53 7.22 | 58 4.75 | −0.32 | 0.0039172 | 1066 | − 8 | −8 |
| 2 | 245 | 10 41 55.46 | 158 51 11.97 | 58 6.19 | −0.39 | 0.0038106 | 1076 | − 2 | −9 |
| 3 | 246 | 10 45 52.01 | 159 49 18.16 | 58 7.66 | −0.44 | 0.0037030 | 1084 | + 7 | −8 |
| 4 | 247 | 10 49 48.57 | 160 47 25.82 | 58 9.17 | −0.47 | 0.0035946 | 1092 | +12 | −6 |
| 5 | 248 | 10 53 45.12 | 161 45 34.99 | 58 10.73 | −0.46 | 0.0034854 | 1098 | +16 | −2 |
| 6 | 249 | 10 57 41.68 | 162 43 45.72 | 58 12.37 | −0.43 | 0.0033756 | 1104 | +15 | +2 |
| 7 | 250 | 11 1 38.23 | 163 41 58.09 | 58 14.08 | −0.37 | 0.0032652 | 1108 | +10 | +5 |
| 8 | 251 | 11 5 34.78 | 164 40 12.17 | 58 15.86 | −0.29 | 0.0031544 | 1112 | + 2 | +8 |
| 9 | 252 | 11 9 31.34 | 165 38 28.03 | 58 17.71 | −0.18 | 0.0030432 | 1115 | − 7 | +9 |
| 10 | 253 | 11 13 27.89 | 166 36 45.74 | 58 19.64 | −0.06 | 0.0029317 | 1119 | −16 | +8 |
| 11 | 254 | 11 17 24.44 | 167 35 5.38 | 58 21.64 | +0.07 | 0.0028198 | 1123 | −22 | +5 |
| 12 | 255 | 11 21 21.00 | 168 33 27.02 | 58 23.71 | +0.21 | 0.0027075 | 1127 | −25 | +2 |
| 13 | 256 | 11 25 17.55 | 169 31 50.73 | 58 25.85 | +0.35 | 0.0025948 | 1132 | −24 | −2 |
| 14 | 257 | 11 29 14.10 | 170 30 16.58 | 58 28.03 | +0.48 | 0.0024816 | 1138 | −18 | −6 |
| 15 | 258 | 11 33 10.66 | 171 28 44.61 | 58 30.23 | +0.60 | 0.0023678 | 1146 | − 9 | −8 |
| 16 | 259 | 11 37 7.21 | 172 27 14.84 | 58 32.45 | +0.69 | 0.0022532 | 1154 | + 2 | −9 |
| 17 | 260 | 11 41 3.76 | 173 25 47.29 | 58 34.66 | +0.75 | 0.0021378 | 1163 | +12 | −8 |
| 18 | 261 | 11 45 0.32 | 174 24 21.95 | 58 36.84 | +0.78 | 0.0020215 | 1173 | +22 | −5 |
| 19 | 262 | 11 48 56.87 | 175 22 58.79 | 58 38.99 | +0.78 | 0.0019042 | 1185 | +24 | −1 |
| 20 | 263 | 11 52 53.42 | 176 21 37.78 | 58 41.09 | +0.75 | 0.0017857 | 1196 | +24 | +3 |
| 21 | 264 | 11 56 49.98 | 177 20 18.87 | 58 43.13 | +0.69 | 0.0016661 | 1208 | +20 | +6 |
| 22 | 265 | 12 0 46.53 | 178 19 2.00 | 58 45.11 | +0.60 | 0.0015453 | 1219 | +13 | +8 |
| 23 | 266 | 12 4 43.08 | 179 17 47.11 | 58 47.04 | +0.49 | 0.0014234 | 1230 | + 4 | +9 |
| 24 | 267 | 12 8 39.64 | 180 16 34.15 | | +0.37 | 0.0013004 | | − 5 | +7 |

## Mittlerer Berliner Mittag.

| Monats- und Wochentag | | Zeitgleichung M. Zt. — W. Zt. | Scheinb. AR. | Diff. | Scheinb. Dekl. | Diff. | Durchg.-Dauer St.-Zt. | Halbm. |
|---|---|---|---|---|---|---|---|---|
| | | m s | h m s | m s | ° ′ ″ | ′ ″ | s | ′ ″ |
| Sept. 23 | Sa | — 7 17.56 | 11 57 25.52 | 3 35.72 | + 0 16 45.7 | 23 23.9 | 127.85 | 15 56.49 |
| 24 | So | 7 38.40 | 12 1 1.24 | 3 35.84 | — 0 6 38.2 | 23 24.5 | 127.89 | 15 56.76 |
| 25 | Mo | 7 59.11 | 12 4 37.08 | 3 35.97 | 0 30 2.7 | 23 24.8 | 127.93 | 15 57.03 |
| 26 | Di | 8 19.69 | 12 8 13.05 | 3 36.13 | 0 53 27.5 | 23 24.8 | 127.98 | 15 57.31 |
| 27 | Mi | 8 40.12 | 12 11 49.18 | 3 36.30 | 1 16 52.3 | 23 24.3 | 128.03 | 15 57.59 |
| 28 | Do | — 9 0.37 | 12 15 25.48 | 3 36.50 | — 1 40 16.6 | 23 23.5 | 128.09 | 15 57.87 |
| 29 | Fr | 9 20.43 | 12 19 1.98 | 3 36.72 | 2 3 40.1 | 23 22.3 | 128.16 | 15 58.15 |
| 30 | Sa | 9 40.26 | 12 22 38.70 | 3 36.95 | 2 27 2.4 | 23 20.8 | 128.23 | 15 58.43 |
| Okt. 1 | So | 9 59.86 | 12 26 15.65 | 3 37.21 | 2 50 23.2 | 23 19.0 | 128.31 | 15 58.71 |
| 2 | Mo | 10 19.21 | 12 29 52.86 | 3 37.48 | 3 13 42.2 | 23 16.7 | 128.39 | 15 58.99 |
| 3 | Di | —10 38.28 | 12 33 30.34 | 3 37.78 | — 3 36 58.9 | 23 14.2 | 128.48 | 15 59.27 |
| 4 | Mi | 10 57.05 | 12 37 8.12 | 3 38.10 | 4 0 13.1 | 23 11.3 | 128.58 | 15 59.55 |
| 5 | Do | 11 15.50 | 12 40 46.22 | 3 38.45 | 4 23 24.4 | 23 8.0 | 128.68 | 15 59.83 |
| 6 | Fr | 11 33.61 | 12 44 24.67 | 3 38.81 | 4 46 32.4 | 23 4.5 | 128.79 | 16 0.11 |
| 7 | Sa | 11 51.35 | 12 48 3.48 | 3 39.20 | 5 9 36.9 | 23 0.5 | 128.90 | 16 0.39 |
| 8 | So | —12 8.70 | 12 51 42.68 | 3 39.62 | — 5 32 37.4 | 22 56.2 | 129.02 | 16 0.67 |
| 9 | Mo | 12 25.64 | 12 55 22.30 | 3 40.05 | 5 55 33.6 | 22 51.7 | 129.14 | 16 0.94 |
| 10 | Di | 12 42.15 | 12 59 2.35 | 3 40.50 | 6 18 25.3 | 22 46.8 | 129.27 | 16 1.22 |
| 11 | Mi | 12 58.20 | 13 2 42.85 | 3 40.99 | 6 41 12.1 | 22 41.5 | 129.41 | 16 1.49 |
| 12 | Do | 13 13.76 | 13 6 23.84 | 3 41.50 | 7 3 53.6 | 22 35.9 | 129.55 | 16 1.76 |
| 13 | Fr | —13 28.82 | 13 10 5.34 | 3 42.02 | — 7 26 29.5 | 22 29.9 | 129.69 | 16 2.03 |
| 14 | Sa | 13 43.35 | 13 13 47.36 | 3 42.57 | 7 48 59.4 | 22 23.6 | 129.84 | 16 2.30 |
| 15 | So | 13 57.34 | 13 17 29.93 | 3 43.13 | 8 11 23.0 | 22 16.8 | 130.00 | 16 2.57 |
| 16 | Mo | 14 10.76 | 13 21 13.06 | 3 43.71 | 8 33 39.8 | 22 9.7 | 130.16 | 16 2.84 |
| 17 | Di | 14 23.61 | 13 24 56.77 | 3 44.30 | 8 55 49.5 | 22 2.2 | 130.33 | 16 3.11 |
| 18 | Mi | —14 35.86 | 13 28 41.07 | 3 44.91 | — 9 17 51.7 | 21 54.3 | 130.50 | 16 3.37 |
| 19 | Do | 14 47.50 | 13 32 25.98 | 3 45.54 | 9 39 46.0 | 21 45.9 | 130.68 | 16 3.64 |
| 20 | Fr | 14 58.52 | 13 36 11.52 | 3 46.18 | 10 1 31.9 | 21 37.2 | 130.86 | 16 3.91 |
| 21 | Sa | 15 8.90 | 13 39 57.70 | 3 46.82 | 10 23 9.1 | 21 28.0 | 131.05 | 16 4.18 |
| 22 | So | 15 18.63 | 13 43 44.52 | 3 47.49 | 10 44 37.1 | 21 18.4 | 131.24 | 16 4.45 |
| 23 | Mo | —15 27.70 | 13 47 32.01 | 3 48.16 | —11 5 55.5 | 21 8.4 | 131.43 | 16 4.71 |
| 24 | Di | 15 36.09 | 13 51 20.17 | 3 48.85 | 11 27 3.9 | 20 58.0 | 131.63 | 16 4.98 |
| 25 | Mi | 15 43.79 | 13 55 9.02 | 3 49.54 | 11 48 1.9 | 20 47.1 | 131.83 | 16 5.25 |
| 26 | Do | 15 50.80 | 13 58 58.56 | 3 50.25 | 12 8 49.0 | 20 35.8 | 132.04 | 16 5.52 |
| 27 | Fr | 15 57.11 | 14 2 48.81 | 3 50.97 | 12 29 24.8 | 20 24.1 | 132.25 | 16 5.78 |
| 28 | Sa | —16 2.70 | 14 6 39.78 | 3 51.70 | —12 49 48.9 | 20 12.0 | 132.46 | 16 6.05 |
| 29 | So | 16 7.56 | 14 10 31.48 | 3 52.44 | 13 10 0.9 | 19 59.5 | 132.68 | 16 6.31 |
| 30 | Mo | 16 11.67 | 14 14 23.92 | 3 53.20 | 13 30 0.4 | 19 46.7 | 132.90 | 16 6.58 |
| 31 | Di | 16 15.03 | 14 18 17.12 | 3 53.96 | 13 49 47.1 | 19 33.3 | 133.12 | 16 6.84 |
| Nov. 1 | Mi | 16 17.62 | 14 22 11.08 | | 14 9 20.4 | | 133.35 | 16 7.10 |

## Mittlerer Berliner Mittag.

| Monats- und Jahrestag | | Sternzeit (h m s) | Mittleres Äqu. 1911.0 Länge (° ′ ″) | Diff. (′ ″) | Breite (″) | Lg. Rad. v. | Diff. | Nut. ☾ in 0″.01 dλ | dε |
|---|---|---|---|---|---|---|---|---|---|
| Sept. 23 | 266 | 12 4 43.08 | 179 17 47.11 | 58 47.04 | +0.49 | 0.0014234 | 1230 | + 4 | +9 |
| 24 | 267 | 12 8 39.64 | 180 16 34.15 | 58 48.93 | +0.37 | 0.0013004 | 1240 | − 5 | +7 |
| 25 | 268 | 12 12 36.19 | 181 15 23.08 | 58 50.76 | +0.25 | 0.0011764 | 1250 | −12 | +4 |
| 26 | 269 | 12 16 32.74 | 182 14 13.84 | 58 52.56 | +0.13 | 0.0010514 | 1257 | −15 | 0 |
| 27 | 270 | 12 20 29.30 | 183 13 6.40 | 58 54.35 | +0.02 | 0.0009257 | 1263 | −15 | −4 |
| 28 | 271 | 12 24 25.85 | 184 12 0.75 | 58 56.13 | −0.08 | 0.0007994 | 1268 | −10 | −7 |
| 29 | 272 | 12 28 22.41 | 185 10 56.88 | 58 57.90 | −0.16 | 0.0006726 | 1272 | − 3 | −9 |
| 30 | 273 | 12 32 18.96 | 186 9 54.78 | 58 59.67 | −0.21 | 0.0005454 | 1275 | + 4 | −9 |
| Okt. 1 | 274 | 12 36 15.51 | 187 8 54.45 | 59 1.44 | −0.24 | 0.0004179 | 1275 | +11 | −7 |
| 2 | 275 | 12 40 12.07 | 188 7 55.89 | 59 3.23 | −0.24 | 0.0002904 | 1275 | +16 | −4 |
| 3 | 276 | 12 44 8.62 | 189 6 59.12 | 59 5.05 | −0.21 | 0.0001629 | 1273 | +15 | 0 |
| 4 | 277 | 12 48 5.17 | 190 6 4.17 | 59 6.90 | −0.16 | 0.0000356 | 1270 | +12 | +4 |
| 5 | 278 | 12 52 1.73 | 191 5 11.07 | 59 8.79 | −0.09 | 9.9999086 | 1266 | + 6 | +7 |
| 6 | 279 | 12 55 58.28 | 192 4 19.86 | 59 10.74 | +0.02 | 9.9997820 | 1260 | − 4 | +9 |
| 7 | 280 | 12 59 54.83 | 193 3 30.60 | 59 12.74 | +0.16 | 9.9996560 | 1254 | −13 | +8 |
| 8 | 281 | 13 3 51.39 | 194 2 43.34 | 59 14.81 | +0.30 | 9.9995306 | 1247 | −20 | +6 |
| 9 | 282 | 13 7 47.94 | 195 1 58.15 | 59 16.95 | +0.45 | 9.9994059 | 1240 | −25 | +3 |
| 10 | 283 | 13 11 44.50 | 196 1 15.10 | 59 19.16 | +0.59 | 9.9992819 | 1232 | −25 | −1 |
| 11 | 284 | 13 15 41.05 | 197 0 34.26 | 59 21.43 | +0.73 | 9.9991587 | 1226 | −21 | −5 |
| 12 | 285 | 13 19 37.60 | 197 59 55.69 | 59 23.74 | +0.85 | 9.9990361 | 1220 | −12 | −8 |
| 13 | 286 | 13 23 34.16 | 198 59 19.43 | 59 26.09 | +0.95 | 9.9989141 | 1216 | − 2 | −9 |
| 14 | 287 | 13 27 30.71 | 199 58 45.52 | 59 28.44 | +1.03 | 9.9987925 | 1212 | + 9 | −8 |
| 15 | 288 | 13 31 27.27 | 200 58 13.96 | 59 30.79 | +1.08 | 9.9986713 | 1209 | +17 | −6 |
| 16 | 289 | 13 35 23.82 | 201 57 44.75 | 59 33.12 | +1.09 | 9.9985504 | 1208 | +24 | −2 |
| 17 | 290 | 13 39 20.38 | 202 57 17.87 | 59 35.42 | +1.07 | 9.9984296 | 1207 | +25 | +2 |
| 18 | 291 | 13 43 16.93 | 203 56 53.29 | 59 37.66 | +1.01 | 9.9983089 | 1207 | +21 | +5 |
| 19 | 292 | 13 47 13.48 | 204 56 30.95 | 59 39.84 | +0.92 | 9.9981882 | 1208 | +15 | +8 |
| 20 | 293 | 13 51 10.04 | 205 56 10.79 | 59 41.95 | +0.82 | 9.9980674 | 1208 | + 7 | +9 |
| 21 | 294 | 13 55 6.59 | 206 55 52.74 | 59 44.00 | +0.71 | 9.9979466 | 1208 | − 2 | +8 |
| 22 | 295 | 13 59 3.15 | 207 55 36.74 | 59 45.98 | +0.59 | 9.9978258 | 1208 | −10 | +5 |
| 23 | 296 | 14 2 59.70 | 208 55 22.72 | 59 47.88 | +0.47 | 9.9977050 | 1208 | −14 | +2 |
| 24 | 297 | 14 6 56.26 | 209 55 10.60 | 59 49.73 | +0.35 | 9.9975842 | 1206 | −15 | −2 |
| 25 | 298 | 14 10 52.81 | 210 55 0.33 | 59 51.53 | +0.24 | 9.9974636 | 1203 | −12 | −6 |
| 26 | 299 | 14 14 49.37 | 211 54 51.86 | 59 53.29 | +0.15 | 9.9973433 | 1199 | − 5 | −8 |
| 27 | 300 | 14 18 45.92 | 212 54 45.15 | 59 55.01 | +0.09 | 9.9972234 | 1195 | + 2 | −9 |
| 28 | 301 | 14 22 42.48 | 213 54 40.16 | 59 56.69 | +0.06 | 9.9971039 | 1188 | +10 | −8 |
| 29 | 302 | 14 26 39.03 | 214 54 36.85 | 59 58.35 | +0.05 | 9.9969851 | 1180 | +14 | −6 |
| 30 | 303 | 14 30 35.59 | 215 54 35.20 | 59 59.99 | +0.07 | 9.9968671 | 1171 | +16 | −1 |
| 31 | 304 | 14 34 32.14 | 216 54 35.19 | 60 1.61 | +0.12 | 9.9967500 | 1161 | +14 | +3 |
| Nov. 1 | 305 | 14 38 28.70 | 217 54 36.80 | | +0.19 | 9.9966339 | | + 8 | +6 |

## Mittlerer Berliner Mittag.

| Monats- und Wochentag | | | Zeitgleichung M. Zt. — W. Zt. | Scheinb. AR. | Diff. | Scheinb. Dekl. | Diff. | Durchg.-Dauer St.-Zt. | Halbm. |
|---|---|---|---|---|---|---|---|---|---|
| | | | m s | h m s | m s | ° ′ ″ | ′ ″ | s | ′ ″ |
| Okt. | 31 | Di | —16 15.03 | 14 18 17.12 | 3 53.96 | —13 49 47.1 | 19 33.3 | 133.12 | 16 6.84 |
| Nov. | 1 | Mi | 16 17.62 | 14 22 11.08 | 3 54.74 | 14 9 20.4 | 19 19.6 | 133.35 | 16 7.10 |
| | 2 | Do | 16 19.44 | 14 26 5.82 | 3 55.52 | 14 28 40.0 | 19 5.5 | 133.58 | 16 7.35 |
| | 3 | Fr | 16 20.47 | 14 30 1.34 | 3 56.32 | 14 47 45.5 | 18 51.0 | 133.81 | 16 7.61 |
| | 4 | Sa | 16 20.71 | 14 33 57.66 | 3 57.12 | 15 6 36.5 | 18 36.1 | 134.04 | 16 7.86 |
| | 5 | So | —16 20.14 | 14 37 54.78 | 3 57.94 | —15 25 12.6 | 18 20.9 | 134.27 | 16 8.10 |
| | 6 | Mo | 16 18.76 | 14 41 52.72 | 3 58.77 | 15 43 33.5 | 18 5.3 | 134.50 | 16 8.34 |
| | 7 | Di | 16 16.55 | 14 45 51.49 | 3 59.61 | 16 1 38.8 | 17 49.3 | 134.74 | 16 8.58 |
| | 8 | Mi | 16 13.49 | 14 49 51.10 | 4 0.46 | 16 19 28.1 | 17 32.9 | 134.97 | 16 8.82 |
| | 9 | Do | 16 9.58 | 14 53 51.56 | 4 1.32 | 16 37 1.0 | 17 16.1 | 135.21 | 16 9.05 |
| | 10 | Fr | —16 4.82 | 14 57 52.88 | 4 2.18 | —16 54 17.1 | 16 59.0 | 135.45 | 16 9.27 |
| | 11 | Sa | 15 59.20 | 15 1 55.06 | 4 3.04 | 17 11 16.1 | 16 41.5 | 135.68 | 16 9.50 |
| | 12 | So | 15 52.72 | 15 5 58.10 | 4 3.91 | 17 27 57.6 | 16 23.6 | 135.92 | 16 9.72 |
| | 13 | Mo | 15 45.36 | 15 10 2.01 | 4 4.79 | 17 44 21.2 | 16 5.2 | 136.16 | 16 9.93 |
| | 14 | Di | 15 37.13 | 15 14 6.80 | 4 5.66 | 18 0 26.4 | 15 46.4 | 136.40 | 16 10.15 |
| | 15 | Mi | —15 28.03 | 15 18 12.46 | 4 6.52 | —18 16 12.8 | 15 27.2 | 136.63 | 16 10.36 |
| | 16 | Do | 15 18.06 | 15 22 18.98 | 4 7.38 | 18 31 40.0 | 15 7.7 | 136.87 | 16 10.56 |
| | 17 | Fr | 15 7.24 | 15 26 26.36 | 4 8.23 | 18 46 47.7 | 14 47.8 | 137.10 | 16 10.77 |
| | 18 | Sa | 14 55.57 | 15 30 34.59 | 4 9.07 | 19 1 35.5 | 14 27.3 | 137.33 | 16 10.97 |
| | 19 | So | 14 43.05 | 15 34 43.66 | 4 9.91 | 19 16 2.8 | 14 6.5 | 137.56 | 16 11.17 |
| | 20 | Mo | —14 29.70 | 15 38 53.57 | 4 10.73 | —19 30 9.3 | 13 45.4 | 137.79 | 16 11.37 |
| | 21 | Di | 14 15.53 | 15 43 4.30 | 4 11.54 | 19 43 54.7 | 13 23.9 | 138.02 | 16 11.57 |
| | 22 | Mi | 14 0.55 | 15 47 15.84 | 4 12.34 | 19 57 18.6 | 13 1.9 | 138.25 | 16 11.76 |
| | 23 | Do | 13 44.77 | 15 51 28.18 | 4 13.13 | 20 10 20.5 | 12 39.6 | 138.47 | 16 11.95 |
| | 24 | Fr | 13 28.20 | 15 55 41.31 | 4 13.89 | 20 23 0.1 | 12 16.9 | 138.69 | 16 12.14 |
| | 25 | Sa | —13 10.86 | 15 59 55.20 | 4 14.64 | —20 35 17.0 | 11 53.9 | 138.90 | 16 12.33 |
| | 26 | So | 12 52.78 | 16 4 9.84 | 4 15.37 | 20 47 10.9 | 11 30.5 | 139.11 | 16 12.51 |
| | 27 | Mo | 12 33.97 | 16 8 25.21 | 4 16.10 | 20 58 41.4 | 11 6.9 | 139.32 | 16 12.69 |
| | 28 | Di | 12 14.43 | 16 12 41.31 | 4 16.80 | 21 9 48.3 | 10 42.9 | 139.52 | 16 12.87 |
| | 29 | Mi | 11 54.18 | 16 16 58.11 | 4 17.48 | 21 20 31.2 | 10 18.6 | 139.71 | 16 13.04 |
| | 30 | Do | —11 33.26 | 16 21 15.59 | 4 18.14 | —21 30 49.8 | 9 53.9 | 139.90 | 16 13.21 |
| Dez. | 1 | Fr | 11 11.68 | 16 25 33.73 | 4 18.78 | 21 40 43.7 | 9 29.1 | 140.09 | 16 13.38 |
| | 2 | Sa | 10 49.46 | 16 29 52.51 | 4 19.41 | 21 50 12.8 | 9 3.9 | 140.27 | 16 13.54 |
| | 3 | So | 10 26.61 | 16 34 11.92 | 4 20.02 | 21 59 16.7 | 8 38.5 | 140.44 | 16 13.69 |
| | 4 | Mo | 10 3.15 | 16 38 31.94 | 4 20.60 | 22 7 55.2 | 8 12.9 | 140.60 | 16 13.84 |
| | 5 | Di | — 9 39.10 | 16 42 52.54 | 4 21.17 | —22 16 8.1 | 7 47.0 | 140.76 | 16 13.98 |
| | 6 | Mi | 9 14.49 | 16 47 13.71 | 4 21.72 | 22 23 55.1 | 7 20.9 | 140.91 | 16 14.12 |
| | 7 | Do | 8 49.33 | 16 51 35.43 | 4 22.25 | 22 31 16.0 | 6 54.5 | 141.05 | 16 14.25 |
| | 8 | Fr | 8 23.64 | 16 55 57.68 | 4 22.75 | 22 38 10.5 | 6 28.0 | 141.19 | 16 14.37 |
| | 9 | Sa | 7 57.45 | 17 0 20.43 | | 22 44 38.5 | | 141.32 | 16 14.49 |

## Mittlerer Berliner Mittag.

| Monats- und Jahrestag | | | Sternzeit | Mittleres Äqu. 1911.0 Länge | Diff. | Breite | Lg. Rad. v. | Diff. | Nut. ☾ in 0".01 dλ | dε |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | h m s | ° ' " | ' " | " | | | | |
| Okt. | 31 | 304 | 14 34 32.14 | 216 54 35.19 | 60 1.61 | +0.12 | 9.9967500 | 1161 | +14 | +3 |
| Nov. | 1 | 305 | 14 38 28.70 | 217 54 36.80 | 60 3.23 | +0.19 | 9.9966339 | 1149 | + 8 | +6 |
| | 2 | 306 | 14 42 25.26 | 218 54 40.03 | 60 4.86 | +0.29 | 9.9965190 | 1136 | − 1 | +8 |
| | 3 | 307 | 14 46 21.81 | 219 54 44.89 | 60 6.50 | +0.41 | 9.9964054 | 1121 | −10 | +9 |
| | 4 | 308 | 14 50 18.37 | 220 54 51.39 | 60 8.18 | +0.54 | 9.9962933 | 1105 | −19 | +7 |
| | 5 | 309 | 14 54 14.92 | 221 54 59.57 | 60 9.90 | +0.68 | 9.9961828 | 1087 | −24 | +4 |
| | 6 | 310 | 14 58 11.48 | 222 55 9.47 | 60 11.68 | +0.82 | 9.9960741 | 1069 | −25 | 0 |
| | 7 | 311 | 15 2 8.04 | 223 55 21.15 | 60 13.52 | +0.96 | 9.9959672 | 1051 | −23 | −4 |
| | 8 | 312 | 15 6 4.59 | 224 55 34.67 | 60 15.41 | +1.09 | 9.9958621 | 1033 | −16 | −7 |
| | 9 | 313 | 15 10 1.15 | 225 55 50.08 | 60 17.35 | +1.21 | 9.9957588 | 1015 | − 5 | −9 |
| | 10 | 314 | 15 13 57.70 | 226 56 7.43 | 60 19.32 | +1.29 | 9.9956573 | 998 | + 5 | −9 |
| | 11 | 315 | 15 17 54.26 | 227 56 26.75 | 60 21.31 | +1.34 | 9.9955575 | 983 | +15 | −7 |
| | 12 | 316 | 15 21 50.82 | 228 56 48.06 | 60 23.30 | +1.35 | 9.9954592 | 968 | +22 | −4 |
| | 13 | 317 | 15 25 47.37 | 229 57 11.36 | 60 25.26 | +1.33 | 9.9953624 | 954 | +24 | 0 |
| | 14 | 318 | 15 29 43.93 | 230 57 36.62 | 60 27.19 | +1.28 | 9.9952670 | 942 | +23 | +4 |
| | 15 | 319 | 15 33 40.49 | 231 58 3.81 | 60 29.07 | +1.20 | 9.9951728 | 930 | +16 | +7 |
| | 16 | 320 | 15 37 37.04 | 232 58 32.88 | 60 30.88 | +1.09 | 9.9950798 | 920 | +10 | +9 |
| | 17 | 321 | 15 41 33.60 | 233 59 3.76 | 60 32.62 | +0.97 | 9.9949878 | 909 | + 1 | +8 |
| | 18 | 322 | 15 45 30.16 | 234 59 36.38 | 60 34.28 | +0.85 | 9.9948969 | 899 | − 7 | +6 |
| | 19 | 323 | 15 49 26.72 | 236 0 10.66 | 60 35.86 | +0.73 | 9.9948070 | 889 | −13 | +3 |
| | 20 | 324 | 15 53 23.27 | 237 0 46.52 | 60 37.37 | +0.61 | 9.9947181 | 879 | −15 | −1 |
| | 21 | 325 | 15 57 19.83 | 238 1 23.89 | 60 38.81 | +0.50 | 9.9946302 | 869 | −13 | −5 |
| | 22 | 326 | 16 1 16.39 | 239 2 2.70 | 60 40.16 | +0.41 | 9.9945433 | 857 | − 7 | −8 |
| | 23 | 327 | 16 5 12.95 | 240 2 42.86 | 60 41.44 | +0.33 | 9.9944576 | 845 | 0 | −9 |
| | 24 | 328 | 16 9 9.50 | 241 3 24.30 | 60 42.64 | +0.28 | 9.9943731 | 833 | + 8 | −8 |
| | 25 | 329 | 16 13 6.06 | 242 4 6.94 | 60 43.78 | +0.26 | 9.9942898 | 819 | +13 | −6 |
| | 26 | 330 | 16 17 2.62 | 243 4 50.72 | 60 44.87 | +0.26 | 9.9942079 | 803 | +17 | −2 |
| | 27 | 331 | 16 20 59.18 | 244 5 35.59 | 60 45.91 | +0.28 | 9.9941276 | 788 | +15 | +2 |
| | 28 | 332 | 16 24 55.74 | 245 6 21.50 | 60 46.90 | +0.33 | 9.9940488 | 771 | +10 | +6 |
| | 29 | 333 | 16 28 52.29 | 246 7 8.40 | 60 47.85 | +0.41 | 9.9939717 | 752 | + 3 | +8 |
| | 30 | 334 | 16 32 48.85 | 247 7 56.25 | 60 48.78 | +0.52 | 9.9938965 | 731 | − 7 | +9 |
| Dez. | 1 | 335 | 16 36 45.41 | 248 8 45.03 | 60 49.69 | +0.65 | 9.9938234 | 710 | −16 | +8 |
| | 2 | 336 | 16 40 41.97 | 249 9 34.72 | 60 50.59 | +0.78 | 9.9937524 | 687 | −22 | +5 |
| | 3 | 337 | 16 44 38.53 | 250 10 25.31 | 60 51.50 | +0.91 | 9.9936837 | 663 | −26 | +1 |
| | 4 | 338 | 16 48 35.08 | 251 11 16.81 | 60 52.46 | +1.05 | 9.9936174 | 637 | −25 | −2 |
| | 5 | 339 | 16 52 31.64 | 252 12 9.27 | 60 53.45 | +1.18 | 9.9935537 | 611 | −19 | −6 |
| | 6 | 340 | 16 56 28.20 | 253 13 2.72 | 60 54.49 | +1.29 | 9.9934926 | 584 | − 9 | −8 |
| | 7 | 341 | 17 0 24.76 | 254 13 57.21 | 60 55.57 | +1.36 | 9.9934342 | 557 | + 1 | −9 |
| | 8 | 342 | 17 4 21.32 | 255 14 52.78 | 60 56.70 | +1.40 | 9.9933785 | 531 | +12 | −7 |
| | 9 | 343 | 17 8 17.88 | 256 15 49.48 | | +1.42 | 9.9933254 | | +19 | −5 |

## Mittlerer Berliner Mittag.

| Monats- und Wochentag | | Zeitgleichung M. Zt. — W. Zt. | Scheinb. AR. | Diff. | Scheinb. Dekl. | Diff. | Durchg.-Dauer St.-Zt. | Halbm. |
|---|---|---|---|---|---|---|---|---|
| | | m s | h m s | m s | ° ′ ″ | ′ ″ | s | ′ ″ |
| Dez. 8 | Fr | —8 23.64 | 16 55 57.68 | 4 22.75 | —22 38 10.5 | 6 28.0 | 141.19 | 16 14.37 |
| 9 | Sa | 7 57.45 | 17 0 20.43 | 4 23.24 | 22 44 38.5 | 6 1.3 | 141.32 | 16 14.49 |
| 10 | So | 7 30.77 | 17 4 43.67 | 4 23.69 | 22 50 39.8 | 5 34.3 | 141.44 | 16 14.61 |
| 11 | Mo | 7 3.64 | 17 9 7.36 | 4 24.12 | 22 56 14.1 | 5 7.1 | 141.55 | 16 14.72 |
| 12 | Di | 6 36.08 | 17 13 31.48 | 4 24.52 | 23 1 21.2 | 4 39.8 | 141.65 | 16 14.82 |
| 13 | Mi | —6 8.12 | 17 17 56.00 | 4 24.89 | —23 6 1.0 | 4 12.4 | 141.75 | 16 14.92 |
| 14 | Do | 5 39.78 | 17 22 20.89 | 4 25.23 | 23 10 13.4 | 3 44.7 | 141.84 | 16 15.01 |
| 15 | Fr | 5 11.11 | 17 26 46.12 | 4 25.53 | 23 13 58.1 | 3 16.9 | 141.92 | 16 15.10 |
| 16 | Sa | 4 42.14 | 17 31 11.65 | 4 25.79 | 23 17 15.0 | 2 49.0 | 141.99 | 16 15.18 |
| 17 | So | 4 12.91 | 17 35 37.44 | 4 26.02 | 23 20 4.0 | 2 21.0 | 142.05 | 16 15.26 |
| 18 | Mo | —3 43.45 | 17 40 3.46 | 4 26.21 | —23 22 25.0 | 1 52.9 | 142.10 | 16 15.34 |
| 19 | Di | 3 13.80 | 17 44 29.67 | 4 26.37 | 23 24 17.9 | 1 24.6 | 142.15 | 16 15.42 |
| 20 | Mi | 2 43.99 | 17 48 56.04 | 4 26.49 | 23 25 42.5 | 0 56.4 | 142.19 | 16 15.49 |
| 21 | Do | 2 14.07 | 17 53 22.53 | 4 26.56 | 23 26 38.9 | 0 28.1 | 142.21 | 16 15.56 |
| 22 | Fr | 1 44.07 | 17 57 49.09 | 4 26.60 | 23 27 7.0 | 0 0.2 | 142.23 | 16 15.62 |
| 23 | Sa | —1 14.02 | 18 2 15.69 | 4 26.61 | —23 27 6.8 | 0 28.6 | 142.24 | 16 15.68 |
| 24 | So | 0 43.96 | 18 6 42.30 | 4 26.58 | 23 26 38.2 | 0 56.9 | 142.24 | 16 15.73 |
| 25 | Mo | —0 13.94 | 18 11 8.88 | 4 26.51 | 23 25 41.3 | 1 25.2 | 142.23 | 16 15.78 |
| 26 | Di | +0 16.01 | 18 15 35.39 | 4 26.40 | 23 24 16.1 | 1 53.5 | 142.21 | 16 15.83 |
| 27 | Mi | 0 45.85 | 18 20 1.79 | 4 26.25 | 23 22 22.6 | 2 21.7 | 142.18 | 16 15.87 |
| 28 | Do | +1 15.54 | 18 24 28.04 | 4 26.07 | —23 20 0.9 | 2 49.7 | 142.14 | 16 15.91 |
| 29 | Fr | 1 45.05 | 18 28 54.11 | 4 25.86 | 23 17 11.2 | 3 17.8 | 142.10 | 16 15.94 |
| 30 | Sa | 2 14.35 | 18 33 19.97 | 4 25.62 | 23 13 53.4 | 3 45.7 | 142.04 | 16 15.97 |
| 31 | So | 2 43.41 | 18 37 45.59 | 4 25.34 | 23 10 7.7 | 4 13.5 | 141.98 | 16 15.99 |
| 32 | Mo | 3 12.19 | 18 42 10.93 | 4 25.03 | 23 5 54.2 | 4 41.1 | 141.91 | 16 16.01 |
| 33 | Di | +3 40.66 | 18 46 35.96 | | —23 1 13.1 | | 141.83 | 16 16.02 |

| | | h |
|---|---|---|
| Frühjahrsäquinoktium | März 21 | 7 |
| Sommersolstitium | Juni 22 | 3 |
| Herbstäquinoktium | Sept. 23 | 17 |
| Wintersolstitium | Dez. 22 | 12 |

## Mittlerer Berliner Mittag.

| Monats- und Jahrestag | | Sternzeit | Mittleres Äqu. 1911.0 Länge | Diff. | Breite | Lg. Rad. v. | Diff. | Nut. ☾ in 0″.01 $d\lambda$ | $d\varepsilon$ |
|---|---|---|---|---|---|---|---|---|---|
| | | h m s | ° ′ ″ | ′ ″ | ″ | | | | |
| Dez. 8 | 342 | 17 4 21.32 | 255 14 52.78 | 60 56.70 | +1.40 | 9.9933785 | 531 | +12 | −7 |
| 9 | 343 | 17 8 17.88 | 256 15 49.48 | 60 57.84 | +1.42 | 9.9933254 | 506 | +19 | −5 |
| 10 | 344 | 17 12 14.44 | 257 16 47.32 | 60 58.99 | +1.40 | 9.9932748 | 482 | +24 | −1 |
| 11 | 345 | 17 16 11.00 | 258 17 46.31 | 61 0.12 | +1.35 | 9.9932266 | 460 | +24 | +3 |
| 12 | 346 | 17 20 7.56 | 259 18 46.43 | 61 1.24 | +1.27 | 9.9931806 | 438 | +20 | +6 |
| 13 | 347 | 17 24 4.12 | 260 19 47.67 | 61 2.32 | +1.17 | 9.9931368 | 418 | +13 | +9 |
| 14 | 348 | 17 28 0.67 | 261 20 49.99 | 61 3.33 | +1.05 | 9.9930950 | 399 | + 4 | +9 |
| 15 | 349 | 17 31 57.23 | 262 21 53.32 | 61 4.27 | +0.92 | 9.9930551 | 381 | − 5 | +7 |
| 16 | 350 | 17 35 53.79 | 263 22 57.59 | 61 5.12 | +0.79 | 9.9930170 | 363 | −12 | +4 |
| 17 | 351 | 17 39 50.35 | 264 24 2.71 | 61 5.90 | +0.67 | 9.9929807 | 346 | −14 | 0 |
| 18 | 352 | 17 43 46.91 | 265 25 8.61 | 61 6.61 | +0.55 | 9.9929461 | 330 | −13 | −4 |
| 19 | 353 | 17 47 43.47 | 266 26 15.22 | 61 7.22 | +0.45 | 9.9929131 | 313 | −10 | −7 |
| 20 | 354 | 17 51 40.03 | 267 27 22.44 | 61 7.74 | +0.37 | 9.9928818 | 297 | − 2 | −9 |
| 21 | 355 | 17 55 36.59 | 268 28 30.18 | 61 8.17 | +0.31 | 9.9928521 | 280 | + 5 | −9 |
| 22 | 356 | 17 59 33.15 | 269 29 38.35 | 61 8.53 | +0.27 | 9.9928241 | 262 | +12 | −7 |
| 23 | 357 | 18 3 29.71 | 270 30 46.88 | 61 8.81 | +0.26 | 9.9927979 | 245 | +16 | −3 |
| 24 | 358 | 18 7 26.26 | 271 31 55.69 | 61 9.00 | +0.28 | 9.9927734 | 227 | +16 | 0 |
| 25 | 359 | 18 11 22.82 | 272 33 4.69 | 61 9.12 | +0.32 | 9.9927507 | 208 | +13 | +4 |
| 26 | 360 | 18 15 19.38 | 273 34 13.81 | 61 9.16 | +0.39 | 9.9927299 | 188 | + 5 | +7 |
| 27 | 361 | 18 19 15.94 | 274 35 22.97 | 61 9.14 | +0.48 | 9.9927111 | 167 | − 4 | +9 |
| 28 | 362 | 18 23 12.50 | 275 36 32.11 | 61 9.07 | +0.59 | 9.9926944 | 145 | −14 | +8 |
| 29 | 363 | 18 27 9.06 | 276 37 41.18 | 61 8.95 | +0.71 | 9.9926799 | 122 | −21 | +6 |
| 30 | 364 | 18 31 5.62 | 277 38 50.13 | 61 8.79 | +0.83 | 9.9926677 | 97 | −25 | +3 |
| 31 | 365 | 18 35 2.18 | 278 39 58.92 | 61 8.63 | +0.95 | 9.9926580 | 70 | −25 | −1 |
| 32 | 366 | 18 38 58.74 | 279 41 7.55 | 61 8.47 | +1.06 | 9.9926510 | 42 | −21 | −5 |
| 33 | 367 | 18 42 55.30 | 280 42 16.02 | | +1.15 | 9.9926468 | | −13 | −8 |

| | | | |
|---|---|---|---|
| Perigäum | Jan. 3 | 4$^h$ |
| Apogäum | Juli 2 | 20 |

Mittl. Äquator und Mittl. Äquinoktium 1911.0

| 1911 | *X* | | Red. auf 1910.0 | *Y* | | Red. auf 1910.0 | *Z* | | Red. auf 1910.0 |
|---|---|---|---|---|---|---|---|---|---|
| | + | | | — | | | — | | |
| Jan. 0.0 | 0.152 5294 | 86364 | | 0.891 1811 | 12856 | | 0.386 5905 | 5574 | |
| 0.5 | 0.161 1658 | 86238 | −2364 | 0.889 8955 | 13551 | − 361 | 0.386 0331 | 5877 | −156 |
| 1.0 | 0.169 7896 | 86105 | | 0.888 5404 | 14246 | | 0.385 4454 | 6178 | |
| 1.5 | 0.178 4001 | 85965 | 2356 | 0.887 1158 | 14939 | 399 | 0.384 8276 | 6479 | 173 |
| 2.0 | 0.186 9966 | 85817 | | 0.885 6219 | 15631 | | 0.384 1797 | 6780 | |
| 2.5 | 0.195 5783 | 85663 | 2348 | 0.884 0588 | 16322 | 437 | 0.383 5017 | 7079 | 190 |
| 3.0 | 0.204 1446 | 85501 | | 0.882 4266 | 17011 | | 0.382 7938 | 7379 | |
| 3.5 | 0.212 6947 | 85332 | 2339 | 0.880 7255 | 17698 | 475 | 0.382 0559 | 7678 | 206 |
| 4.0 | 0.221 2279 | 85156 | | 0.878 9557 | 18384 | | 0.381 2881 | 7977 | |
| 4.5 | 0.229 7435 | | 2329 | 0.877 1173 | | 513 | 0.380 4904 | | 223 |
| | + | 84974 | | — | 19068 | | — | 8273 | |
| 5.0 | 0.238 2409 | 84785 | | 0.875 2105 | 19750 | | 0.379 6631 | 8569 | |
| 5.5 | 0.246 7194 | 84589 | −2319 | 0.873 2355 | 20430 | − 551 | 0.378 8062 | 8864 | −239 |
| 6.0 | 0.255 1783 | 84387 | | 0.871 1925 | 21108 | | 0.377 9198 | 9159 | |
| 6.5 | 0.263 6170 | 84177 | 2308 | 0.869 0817 | 21785 | 589 | 0.377 0039 | 9452 | 256 |
| 7.0 | 0.272 0347 | 83961 | | 0.866 9032 | 22459 | | 0.376 0587 | 9745 | |
| 7.5 | 0.280 4308 | 83739 | 2296 | 0.864 6573 | 23131 | 627 | 0.375 0842 | 10037 | 272 |
| 8.0 | 0.288 8047 | 83510 | | 0.862 3442 | 23800 | | 0.374 0805 | 10327 | |
| 8.5 | 0.297 1557 | 83276 | 2284 | 0.859 9642 | 24468 | 664 | 0.373 0478 | 10617 | 289 |
| 9.0 | 0.305 4833 | 83034 | | 0.857 5174 | 25132 | | 0.371 9861 | 10906 | |
| 9.5 | 0.313 7867 | | 2271 | 0.855 0042 | | 701 | 0.370 8955 | | 305 |
| | + | 82787 | | — | 25794 | | — | 11193 | |
| 10.0 | 0.322 0654 | 82533 | | 0.852 4248 | 26455 | | 0.369 7762 | 11480 | |
| 10.5 | 0.330 3187 | 82273 | −2257 | 0.849 7793 | 27112 | − 738 | 0.368 6282 | 11766 | −321 |
| 11.0 | 0.338 5460 | 82008 | | 0.847 0681 | 27768 | | 0.367 4516 | 12049 | |
| 11.5 | 0.346 7468 | 81737 | 2242 | 0.844 2913 | 28420 | 775 | 0.366 2467 | 12332 | 337 |
| 12.0 | 0.354 9205 | 81459 | | 0.841 4493 | 29070 | | 0.365 0135 | 12614 | |
| 12.5 | 0.363 0664 | 81177 | 2227 | 0.838 5423 | 29718 | 811 | 0.363 7521 | 12894 | 353 |
| 13.0 | 0.371 1841 | 80889 | | 0.835 5705 | 30363 | | 0.362 4627 | 13173 | |
| 13.5 | 0.379 2730 | 80594 | 2211 | 0.832 5342 | 31007 | 847 | 0.361 1454 | 13452 | 369 |
| 14.0 | 0.387 3324 | 80294 | | 0.829 4335 | 31648 | | 0.359 8002 | 13730 | |
| 14.5 | 0.395 3618 | | 2194 | 0.826 2687 | | 883 | 0.358 4272 | | 384 |
| | + | 79989 | | — | 32287 | | — | 14007 | |
| 15.0 | 0.403 3607 | 79677 | | 0.823 0400 | 32924 | | 0.357 0265 | 14283 | |
| 15.5 | 0.411 3284 | 79361 | −2177 | 0.819 7476 | 33558 | − 919 | 0.355 5982 | 14557 | −400 |
| 16.0 | 0.419 2645 | 79038 | | 0.816 3918 | 34190 | | 0.354 1425 | 14831 | |
| 16.5 | 0.427 1683 | 78709 | 2159 | 0.812 9728 | 34819 | 954 | 0.352 6594 | 15104 | 415 |
| 17.0 | 0.435 0392 | 78375 | | 0.809 4909 | 35445 | | 0.351 1490 | 15375 | |
| 17.5 | 0.442 8767 | 78035 | 2140 | 0.805 9464 | 36070 | 989 | 0.349 6115 | 15646 | 430 |
| 18.0 | 0.450 6802 | 77689 | | 0.802 3394 | 36692 | | 0.348 0469 | 15915 | |
| 18.5 | 0.458 4491 | 77338 | 2121 | 0.798 6702 | 37312 | 1024 | 0.346 4554 | 16183 | 445 |
| 19.0 | 0.466 1829 | | | 0.794 9390 | | | 0.344 8371 | | |

Mittl. Äquator und Mittl. Äquinoktium 1911.0

| 1911 | X | | Red. auf 1910.0 | Y | | Red. auf 1910.0 | Z | | Red. auf 1910.0 |
|---|---|---|---|---|---|---|---|---|---|
| | + | | | — | | | — | | |
| Jan. 19.0 | 0.466 1829 | 76979 | | 0.794 9390 | 37929 | | 0.344 8371 | 16451 | |
| 19.5 | 0.473 8808 | 76615 | —2101 | 0.791 1461 | 38543 | —1059 | 0.343 1920 | 16718 | —460 |
| 20.0 | 0.481 5423 | 76245 | | 0.787 2918 | 39155 | | 0.341 5202 | 16983 | |
| 20.5 | 0.489 1668 | 75869 | 2081 | 0.783 3763 | 39764 | 1093 | 0.339 8219 | 17246 | 475 |
| 21.0 | 0.496 7537 | 75487 | | 0.779 3999 | 40371 | | 0.338 0973 | 17509 | |
| 21.5 | 0.504 3024 | 75100 | 2060 | 0.775 3628 | 40974 | 1127 | 0.336 3464 | 17771 | 490 |
| 22.0 | 0.511 8124 | 74705 | | 0.771 2654 | 41575 | | 0.334 5693 | 18032 | |
| 22.5 | 0.519 2829 | 74305 | 2038 | 0.767 1079 | 42173 | 1160 | 0.332 7661 | 18290 | 504 |
| 23.0 | 0.526 7134 | 73899 | | 0.762 8906 | 42767 | | 0.330 9371 | 18548 | |
| 23.5 | 0.534 1033 | | 2015 | 0.758 6139 | | 1193 | 0.329 0823 | | 519 |
| | + | 73488 | | — | 43358 | | — | 18805 | |
| 24.0 | 0.541 4521 | 73070 | | 0.754 2781 | 43945 | | 0.327 2018 | 19059 | |
| 24.5 | 0.548 7591 | 72646 | —1992 | 0.749 8836 | 44528 | —1226 | 0.325 2959 | 19313 | —533 |
| 25.0 | 0.556 0237 | 72216 | | 0.745 4308 | 45109 | | 0.323 3646 | 19566 | |
| 25.5 | 0.563 2453 | 71781 | 1968 | 0.740 9199 | 45687 | 1258 | 0.321 4080 | 19816 | 547 |
| 26.0 | 0.570 4234 | 71339 | | 0.736 3512 | 46261 | | 0.319 4264 | 20065 | |
| 26.5 | 0.577 5573 | 70892 | 1943 | 0.731 7251 | 46832 | 1290 | 0.317 4199 | 20313 | 561 |
| 27.0 | 0.584 6465 | 70439 | | 0.727 0419 | 47398 | | 0.315 3886 | 20559 | |
| 27.5 | 0.591 6904 | 69980 | 1918 | 0.722 3021 | 47961 | 1322 | 0.313 3327 | 20803 | 575 |
| 28.0 | 0.598 6884 | 69516 | | 0.717 5060 | 48520 | | 0.311 2524 | 21046 | |
| 28.5 | 0.605 6400 | | 1893 | 0.712 6540 | | 1353 | 0.309 1478 | | 588 |
| | + | 69046 | | — | 49074 | | — | 21287 | |
| 29.0 | 0.612 5446 | 68571 | | 0.707 7466 | 49625 | | 0.307 0191 | 21526 | |
| 29.5 | 0.619 4017 | 68089 | —1867 | 0.702 7841 | 50172 | —1384 | 0.304 8665 | 21764 | —602 |
| 30.0 | 0.626 2106 | 67601 | | 0.697 7669 | 50714 | | 0.302 6901 | 22000 | |
| 30.5 | 0.632 9707 | 67109 | 1840 | 0.692 6955 | 51251 | 1414 | 0.300 4901 | 22233 | 615 |
| 31.0 | 0.639 6816 | 66611 | | 0.687 5704 | 51785 | | 0.298 2668 | 22465 | |
| 31.5 | 0.646 3427 | 66108 | 1813 | 0.682 3919 | 52315 | 1444 | 0.296 0203 | 22695 | 628 |
| Febr. 1.0 | 0.652 9535 | 65599 | | 0.677 1604 | 52841 | | 0.293 7508 | 22923 | |
| 1.5 | 0.659 5134 | 65086 | 1785 | 0.671 8763 | 53361 | 1473 | 0.291 4585 | 23149 | 641 |
| 2.0 | 0.666 0220 | 64567 | | 0.666 5402 | 53877 | | 0.289 1436 | 23373 | |
| 2.5 | 0.672 4787 | | 1756 | 0.661 1525 | | 1502 | 0.286 8063 | | 654 |
| | + | 64043 | | — | 54387 | | — | 23595 | |
| 3.0 | 0.678 8830 | 63515 | | 0.655 7138 | 54893 | | 0.284 4468 | 23815 | |
| 3.5 | 0.685 2345 | 62982 | —1727 | 0.650 2245 | 55394 | —1530 | 0.282 0653 | 24032 | —666 |
| 4.0 | 0.691 5327 | 62444 | | 0.644 6851 | 55890 | | 0.279 6621 | 24248 | |
| 4.5 | 0.697 7771 | 61901 | 1698 | 0.639 0961 | 56381 | 1558 | 0.277 2373 | 24461 | 678 |
| 5.0 | 0.703 9672 | 61355 | | 0.633 4580 | 56869 | | 0.274 7912 | 24673 | |
| 5.5 | 0.710 1027 | 60803 | 1668 | 0.627 7711 | 57351 | 1586 | 0.272 3239 | 24882 | 690 |
| 6.0 | 0.716 1830 | 60247 | | 0.622 0360 | 57828 | | 0.269 8357 | 25089 | |
| 6.5 | 0.722 2077 | 59687 | 1637 | 0.616 2532 | 58299 | 1613 | 0.267 3268 | 25294 | 702 |
| 7.0 | 0.728 1764 | | | 0.610 4233 | | | 0.264 7974 | | |

Mittl. Äquator und Mittl. Äquinoktium 1911.0

| 1911 | *X* | | Red. auf 1910.0 | *Y* | | Red. auf 1910.0 | *Z* | | Red. auf 1910.0 |
|---|---|---|---|---|---|---|---|---|---|
| | + | | | — | | | — | | |
| Febr. 7.0 | 0.728 1764 | 59124 | | 0.610 4233 | 58767 | | 0.264 7974 | 25496 | |
| 7.5 | 0.734 0888 | 58557 | −1606 | 0.604 5466 | 59229 | −1640 | 0.262 2478 | 25696 | −713 |
| 8.0 | 0.739 9445 | 57985 | | 0.598 6237 | 59686 | | 0.259 6782 | 25894 | |
| 8.5 | 0.745 7430 | 57410 | 1574 | 0.592 6551 | 60139 | 1666 | 0.257 0888 | 26091 | 724 |
| 9.0 | 0.751 4840 | 56832 | | 0.586 6412 | 60587 | | 0.254 4797 | 26285 | |
| 9.5 | 0.757 1672 | 56249 | 1542 | 0.580 5825 | 61029 | 1691 | 0.251 8512 | 26476 | 735 |
| 10.0 | 0.762 7921 | 55663 | | 0.574 4796 | 61467 | | 0.249 2036 | 26666 | |
| 10.5 | 0.768 3584 | 55074 | 1509 | 0.568 3329 | 61901 | 1716 | 0.246 5370 | 26853 | 746 |
| 11.0 | 0.773 8658 | 54480 | | 0.562 1428 | 62330 | | 0.243 8517 | 27039 | |
| 11.5 | 0.779 3138 | | 1476 | 0.555 9098 | | 1741 | 0.241 1478 | | 756 |
| | + | 53882 | | — | 62754 | | — | 27223 | |
| 12.0 | 0.784 7020 | 53282 | | 0.549 6344 | 63174 | | 0.238 4255 | 27404 | |
| 12.5 | 0.790 0302 | 52679 | −1443 | 0.543 3170 | 63589 | −1765 | 0.235 6851 | 27584 | −767 |
| 13.0 | 0.795 2981 | 52071 | | 0.536 9581 | 64000 | | 0.232 9267 | 27762 | |
| 13.5 | 0.800 5052 | 51459 | 1409 | 0.530 5581 | 64405 | 1788 | 0.230 1505 | 27937 | 777 |
| 14.0 | 0.805 6511 | 50845 | | 0.524 1176 | 64806 | | 0.227 3568 | 28111 | |
| 14.5 | 0.810 7356 | 50227 | 1375 | 0.517 6370 | 65202 | 1811 | 0.224 5457 | 28283 | 787 |
| 15.0 | 0.815 7583 | 49604 | | 0.511 1168 | 65594 | | 0.221 7174 | 28452 | |
| 15.5 | 0.820 7187 | 48979 | 1340 | 0.504 5574 | 65981 | 1833 | 0.218 8722 | 28620 | 797 |
| 16.0 | 0.825 6166 | 48350 | | 0.497 9593 | 66364 | | 0.216 0102 | 28785 | |
| 16.5 | 0.830 4516 | | 1305 | 0.491 3229 | | 1855 | 0.213 1317 | | 807 |
| | + | 47718 | | — | 66741 | | — | 28949 | |
| 17.0 | 0.835 2234 | 47081 | | 0.484 6488 | 67114 | | 0.210 2368 | 29110 | |
| 17.5 | 0.839 9315 | 46442 | −1269 | 0.477 9374 | 67481 | −1876 | 0.207 3258 | 29269 | −816 |
| 18.0 | 0.844 5757 | 45798 | | 0.471 1893 | 67844 | | 0.204 3989 | 29427 | |
| 18.5 | 0.849 1555 | 45150 | 1233 | 0.464 4049 | 68201 | 1897 | 0.201 4562 | 29582 | 825 |
| 19.0 | 0.853 6705 | 44499 | | 0.457 5848 | 68554 | | 0.198 4980 | 29735 | |
| 19.5 | 0.858 1204 | 43845 | 1197 | 0.450 7294 | 68902 | 1917 | 0.195 5245 | 29886 | 834 |
| 20.0 | 0.862 5049 | 43188 | | 0.443 8392 | 69244 | | 0.192 5359 | 30035 | |
| 20.5 | 0.866 8237 | 42527 | 1160 | 0.436 9148 | 69580 | 1936 | 0.189 5324 | 30181 | 843 |
| 21.0 | 0.871 0764 | 41863 | | 0.429 9568 | 69912 | | 0.186 5143 | 30325 | |
| 21.5 | 0.875 2627 | | 1123 | 0.422 9656 | | 1955 | 0.183 4818 | | 851 |
| | + | 41195 | | — | 70238 | | — | 30466 | |
| 22.0 | 0.879 3822 | 40525 | | 0.415 9418 | 70560 | | 0.180 4352 | 30606 | |
| 22.5 | 0.883 4347 | 39850 | −1086 | 0.408 8858 | 70875 | −1973 | 0.177 3746 | 30742 | −859 |
| 23.0 | 0.887 4197 | 39172 | | 0.401 7983 | 71185 | | 0.174 3004 | 30877 | |
| 23.5 | 0.891 3369 | 38492 | 1048 | 0.394 6798 | 71490 | 1991 | 0.171 2127 | 31010 | 866 |
| 24.0 | 0.895 1861 | 37809 | | 0.387 5308 | 71789 | | 0.168 1117 | 31140 | |
| 24.5 | 0.898 9670 | 37122 | 1010 | 0.380 3519 | 72081 | 2008 | 0.164 9977 | 31267 | 874 |
| 25.0 | 0.902 6792 | 36433 | | 0.373 1438 | 72369 | | 0.161 8710 | 31392 | |
| 25.5 | 0.906 3225 | 35741 | 972 | 0.365 9069 | 72651 | 2025 | 0.158 7318 | 31516 | 881 |
| 26.0 | 0.909 8966 | | | 0.358 6418 | | | 0.155 5802 | | |

Mittl. Äquator und Mittl. Äquinoktium 1911.0

| 1911 | X | Diff. | Red. auf 1910.0 | Y | Diff. | Red. auf 1910.0 | Z | Diff. | Red. auf 1910.0 |
|---|---|---|---|---|---|---|---|---|---|
| | + | | | − | | | − | | |
| Febr. 26.0 | 0.909 8966 | 35045 | | 0.358 6418 | 72927 | | 0.155 5802 | 31637 | |
| 26.5 | 0.913 4011 | 34347 | −933 | 0.351 3491 | 73198 | −2041 | 0.152 4165 | 31754 | −888 |
| 27.0 | 0.916 8358 | 33647 | | 0.344 0293 | 73462 | | 0.149 2411 | 31868 | |
| 27.5 | 0.920 2005 | 32943 | 894 | 0.336 6831 | 73720 | 2056 | 0.146 0543 | 31980 | 895 |
| 28.0 | 0.923 4948 | 32237 | | 0.329 3111 | 73972 | | 0.142 8563 | 32089 | |
| 28.5 | 0.926 7185 | 31528 | 855 | 0.321 9139 | 74218 | 2070 | 0.139 6474 | 32196 | 901 |
| März 1.0 | 0.929 8713 | 30817 | | 0.314 4921 | 74458 | | 0.136 4278 | 32301 | |
| 1.5 | 0.932 9530 | 30104 | 816 | 0.307 0463 | 74692 | 2084 | 0.133 1977 | 32402 | 907 |
| 2.0 | 0.935 9634 | 29389 | | 0.299 5771 | 74919 | | 0.129 9575 | 32502 | |
| 2.5 | 0.938 9023 | 28672 | 776 | 0.292 0852 | 75141 | 2097 | 0.126 7073 | 32599 | 913 |
| | + | | | − | | | − | | |
| 3.0 | 0.941 7695 | 27953 | | 0.284 5711 | 75355 | | 0.123 4474 | 32692 | |
| 3.5 | 0.944 5648 | 27232 | −736 | 0.277 0356 | 75564 | −2110 | 0.120 1782 | 32783 | −918 |
| 4.0 | 0.947 2880 | 26510 | | 0.269 4792 | 75767 | | 0.116 8999 | 32871 | |
| 4.5 | 0.949 9390 | 25787 | 696 | 0.261 9025 | 75962 | 2122 | 0.113 6128 | 32955 | 923 |
| 5.0 | 0.952 5177 | 25062 | | 0.254 3063 | 76152 | | 0.110 3173 | 33038 | |
| 5.5 | 0.955 0239 | 24335 | 656 | 0.246 6911 | 76336 | 2134 | 0.107 0135 | 33118 | 928 |
| 6.0 | 0.957 4574 | 23607 | | 0.239 0575 | 76514 | | 0.103 7017 | 33194 | |
| 6.5 | 0.959 8181 | 22879 | 615 | 0.231 4061 | 76686 | 2145 | 0.100 3823 | 33269 | 933 |
| 7.0 | 0.962 1060 | 22149 | | 0.223 7375 | 76851 | | 0.097 0554 | 33340 | |
| 7.5 | 0.964 3209 | 21419 | 574 | 0.216 0524 | 77011 | 2155 | 0.093 7214 | 33410 | 937 |
| | + | | | − | | | − | | |
| 8.0 | 0.966 4628 | 20688 | | 0.208 3513 | 77165 | | 0.090 3804 | 33476 | |
| 8.5 | 0.968 5316 | 19956 | −533 | 0.200 6348 | 77313 | −2164 | 0.087 0328 | 33540 | −941 |
| 9.0 | 0.970 5272 | 19224 | | 0.192 9035 | 77455 | | 0.083 6788 | 33601 | |
| 9.5 | 0.972 4496 | 18491 | 492 | 0.185 1580 | 77590 | 2173 | 0.080 3187 | 33660 | 945 |
| 10.0 | 0.974 2987 | 17757 | | 0.177 3990 | 77721 | | 0.076 9527 | 33716 | |
| 10.5 | 0.976 0744 | 17022 | 451 | 0.169 6269 | 77846 | 2181 | 0.073 5811 | 33769 | 948 |
| 11.0 | 0.977 7766 | 16287 | | 0.161 8423 | 77965 | | 0.070 2042 | 33821 | |
| 11.5 | 0.979 4053 | 15551 | 409 | 0.154 0458 | 78078 | 2188 | 0.066 8221 | 33870 | 951 |
| 12.0 | 0.980 9604 | 14815 | | 0.146 2380 | 78186 | | 0.063 4351 | 33916 | |
| 12.5 | 0.982 4419 | 14078 | 368 | 0.138 4194 | 78288 | 2195 | 0.060 0435 | 33960 | 954 |
| | + | | | − | | | − | | |
| 13.0 | 0.983 8497 | 13342 | | 0.130 5906 | 78384 | | 0.056 6475 | 34001 | |
| 13.5 | 0.985 1839 | 12604 | −326 | 0.122 7522 | 78475 | −2201 | 0.053 2474 | 34040 | −957 |
| 14.0 | 0.986 4443 | 11866 | | 0.114 9047 | 78561 | | 0.049 8434 | 34077 | |
| 14.5 | 0.987 6309 | 11127 | 285 | 0.107 0486 | 78642 | 2206 | 0.046 4357 | 34112 | 959 |
| 15.0 | 0.988 7436 | 10388 | | 0.099 1844 | 78717 | | 0.043 0245 | 34144 | |
| 15.5 | 0.989 7824 | 9649 | 243 | 0.091 3127 | 78785 | 2211 | 0.039 6101 | 34173 | 961 |
| 16.0 | 0.990 7473 | 8908 | | 0.083 4342 | 78849 | | 0.036 1928 | 34201 | |
| 16.5 | 0.991 6381 | 8167 | 201 | 0.075 5493 | 78907 | 2215 | 0.032 7727 | 34226 | 963 |
| 17.0 | 0.992 4548 | | | 0.067 6586 | | | 0.029 3501 | | |

Mittl. Äquator und Mittl. Äquinoktium 1911.0

| 1911 | X | | Red. auf 1910.0 | Y | | Red. auf 1910.0 | Z | | Red. auf 1910.0 |
|---|---|---|---|---|---|---|---|---|---|
| | + | | | − | | | − | | |
| März 17.0 | 0.992 4548 | 7425 | | 0.067 6586 | 78959 | | 0.029 3501 | 34249 | |
| 17.5 | 0.993 1973 | 6684 | −159 | 0.059 7627 | 79006 | −2219 | 0.025 9252 | 34269 | −965 |
| 18.0 | 0.993 8657 | 5941 | | 0.051 8621 | 79047 | | 0.022 4983 | 34286 | |
| 18.5 | 0.994 4598 | 5198 | 117 | 0.043 9574 | 79082 | 2222 | 0.019 0697 | 34302 | 966 |
| 19.0 | 0.994 9796 | 4455 | | 0.036 0492 | 79111 | | 0.015 6395 | 34314 | |
| 19.5 | 0.995 4251 | 3712 | 75 | 0.028 1381 | 79135 | 2224 | 0.012 2081 | 34325 | 967 |
| 20.0 | 0.995 7963 | 2968 | | 0.020 2246 | 79153 | | 0.008 7756 | 34333 | |
| 20.5 | 0.996 0931 | 2225 | − 33 | 0.012 3093 | 79166 | 2225 | 0.005 3423 | 34339 | 968 |
| 21.0 | 0.996 3156 | 1480 | | 0.004 3927 | 79173 | | 0.001 9084 | 34342 | |
| | + | | | + | | | + | | |
| 21.5 | 0.996 4636 | 736 | + 9 | 0.003 5246 | 79173 | 2226 | 0.001 5258 | 34342 | 968 |
| | + | | | + | | | + | | |
| 22.0 | 0.996 5372 | 8 | | 0.011 4419 | 79167 | | 0.004 9600 | 34340 | |
| 22.5 | 0.996 5364 | 753 | + 51 | 0.019 3586 | 79156 | −2226 | 0.008 3940 | 34336 | −968 |
| 23.0 | 0.996 4611 | 1497 | | 0.027 2742 | 79139 | | 0.011 8276 | 34329 | |
| 23.5 | 0.996 3114 | 2241 | 93 | 0.035 1881 | 79116 | 2226 | 0.015 2605 | 34319 | 968 |
| 24.0 | 0.996 0873 | 2986 | | 0.043 0997 | 79088 | | 0.018 6924 | 34306 | |
| 24.5 | 0.995 7887 | 3730 | 135 | 0.051 0085 | 79053 | 2225 | 0.022 1230 | 34292 | 968 |
| 25.0 | 0.995 4157 | 4474 | | 0.058 9138 | 79012 | | 0.025 5522 | 34274 | |
| 25.5 | 0.994 9683 | 5218 | 177 | 0.066 8150 | 78965 | 2223 | 0.028 9796 | 34255 | 967 |
| 26.0 | 0.994 4465 | 5962 | | 0.074 7115 | 78912 | | 0.032 4051 | 34232 | |
| 26.5 | 0.993 8503 | 6705 | 219 | 0.082 6027 | 78853 | 2220 | 0.035 8283 | 34207 | 966 |
| | + | | | + | | | + | | |
| 27.0 | 0.993 1798 | 7447 | | 0.090 4880 | 78787 | | 0.039 2490 | 34179 | |
| 27.5 | 0.992 4351 | 8188 | +261 | 0.098 3667 | 78715 | −2217 | 0.042 6669 | 34149 | −965 |
| 28.0 | 0.991 6163 | 8929 | | 0.106 2382 | 78638 | | 0.046 0818 | 34115 | |
| 28.5 | 0.990 7234 | 9670 | 303 | 0.114 1020 | 78554 | 2213 | 0.049 4933 | 34078 | 963 |
| 29.0 | 0.989 7564 | 10410 | | 0.121 9574 | 78464 | | 0.052 9011 | 34039 | |
| 29.5 | 0.988 7154 | 11148 | 344 | 0.129 8038 | 78367 | 2209 | 0.056 3050 | 33998 | 961 |
| 30.0 | 0.987 6006 | 11886 | | 0.137 6405 | 78264 | | 0.059 7048 | 33954 | |
| 30.5 | 0.986 4120 | 12622 | 386 | 0.145 4669 | 78156 | 2204 | 0.063 1002 | 33906 | 959 |
| 31.0 | 0.985 1498 | 13356 | | 0.153 2825 | 78040 | | 0.066 4908 | 33856 | |
| 31.5 | 0.983 8142 | 14089 | 427 | 0.161 0865 | 77918 | 2198 | 0.069 8764 | 33804 | 956 |
| | + | | | + | | | + | | |
| April 1.0 | 0.982 4053 | 14821 | | 0.168 8783 | 77790 | | 0.073 2568 | 33749 | |
| 1.5 | 0.980 9232 | 15550 | +468 | 0.176 6573 | 77657 | −2192 | 0.076 6317 | 33691 | −953 |
| 2.0 | 0.979 3682 | 16279 | | 0.184 4230 | 77517 | | 0.080 0008 | 33630 | |
| 2.5 | 0.977 7403 | 17005 | 510 | 0.192 1747 | 77372 | 2185 | 0.083 3638 | 33566 | 950 |
| 3.0 | 0.976 0398 | 17728 | | 0.199 9119 | 77220 | | 0.086 7204 | 33501 | |
| 3.5 | 0.974 2670 | 18449 | 551 | 0.207 6339 | 77063 | 2177 | 0.090 0705 | 33433 | 947 |
| 4.0 | 0.972 4221 | 19169 | | 0.215 3402 | 76900 | | 0.093 4138 | 33362 | |
| 4.5 | 0.970 5052 | 19886 | 592 | 0.223 0302 | 76731 | 2169 | 0.096 7500 | 33288 | 943 |
| 5.0 | 0.968 5166 | | | 0.230 7033 | | | 0.100 0788 | | |

Mittl. Äquator und Mittl. Äquinoktium 1911.0

| 1911 | X | | Red. auf 1910.0 | Y | | Red. auf 1910.0 | Z | | Red. auf 1910.0 |
|---|---|---|---|---|---|---|---|---|---|
| | + | | | + | | | + | | |
| April 5.0 | 0.968 5166 | 20600 | | 0.230 7033 | 76556 | | 0.100 0788 | 33211 | |
| 5.5 | 0.966 4566 | 21312 | + 633 | 0.238 3589 | 76377 | −2160 | 0.103 3999 | 33133 | −939 |
| 6.0 | 0.964 3254 | 22022 | | 0.245 9966 | 76192 | | 0.106 7132 | 33052 | |
| 6.5 | 0.962 1232 | 22731 | 673 | 0.253 6158 | 76002 | 2150 | 0.110 0184 | 32970 | 935 |
| 7.0 | 0.959 8501 | 23437 | | 0.261 2160 | 75806 | | 0.113 3154 | 32885 | |
| 7.5 | 0.957 5064 | 24140 | 713 | 0.268 7966 | 75606 | 2140 | 0.116 6039 | 32797 | 930 |
| 8.0 | 0.955 0924 | 24840 | | 0.276 3572 | 75399 | | 0.119 8836 | 32707 | |
| 8.5 | 0.952 6084 | 25537 | 753 | 0.283 8971 | 75188 | 2129 | 0.123 1543 | 32616 | 925 |
| 9.0 | 0.950 0547 | 26232 | | 0.291 4159 | 74971 | | 0.126 4159 | 32521 | |
| 9.5 | 0.947 4315 | | 793 | 0.298 9130 | | 2117 | 0.129 6680 | | 920 |
| | + | 26925 | | + | 74750 | | + | 32425 | |
| 10.0 | 0.944 7390 | 27616 | | 0.306 3880 | 74523 | | 0.132 9105 | 32326 | |
| 10.5 | 0.941 9774 | 28305 | + 833 | 0.313 8403 | 74292 | −2105 | 0.136 1431 | 32225 | −915 |
| 11.0 | 0.939 1469 | 28992 | | 0.321 2695 | 74056 | | 0.139 3656 | 32122 | |
| 11.5 | 0.936 2477 | 29676 | 872 | 0.328 6751 | 73815 | 2092 | 0.142 5778 | 32018 | 909 |
| 12.0 | 0.933 2801 | 30357 | | 0.336 0566 | 73569 | | 0.145 7796 | 31911 | |
| 12.5 | 0.930 2444 | 31036 | 911 | 0.343 4135 | 73318 | 2079 | 0.148 9707 | 31801 | 903 |
| 13.0 | 0.927 1408 | 31712 | | 0.350 7453 | 73062 | | 0.152 1508 | 31690 | |
| 13.5 | 0.923 9696 | 32385 | 950 | 0.358 0515 | 72801 | 2065 | 0.155 3198 | 31577 | 897 |
| 14.0 | 0.920 7311 | 33056 | | 0.365 3316 | 72536 | | 0.158 4775 | 31462 | |
| 14.5 | 0.917 4255 | | 989 | 0.372 5852 | | 2050 | 0.161 6237 | | 891 |
| | + | 33725 | | + | 72265 | | + | 31344 | |
| 15.0 | 0.914 0530 | 34392 | | 0.379 8117 | 71989 | | 0.164 7581 | 31225 | |
| 15.5 | 0.910 6138 | 35056 | +1027 | 0.387 0106 | 71708 | −2035 | 0.167 8806 | 31103 | −885 |
| 16.0 | 0.907 1082 | 35717 | | 0.394 1814 | 71423 | | 0.170 9909 | 30980 | |
| 16.5 | 0.903 5365 | 36376 | 1065 | 0.401 3237 | 71132 | 2019 | 0.174 0889 | 30854 | 878 |
| 17.0 | 0.899 8989 | 37033 | | 0.408 4369 | 70837 | | 0.177 1743 | 30726 | |
| 17.5 | 0.896 1956 | 37687 | 1103 | 0.415 5206 | 70537 | 2003 | 0.180 2469 | 30595 | 871 |
| 18.0 | 0.892 4269 | 38339 | | 0.422 5743 | 70232 | | 0.183 3064 | 30463 | |
| 18.5 | 0.888 5930 | 38987 | 1141 | 0.429 5975 | 69921 | 1986 | 0.186 3527 | 30329 | 864 |
| 19.0 | 0.884 6943 | 39633 | | 0.436 5896 | 69606 | | 0.189 3856 | 30193 | |
| 19.5 | 0.880 7310 | | 1178 | 0.443 5502 | | 1968 | 0.192 4049 | | 856 |
| | + | 40276 | | + | 69286 | | + | 30054 | |
| 20.0 | 0.876 7034 | 40916 | | 0.450 4788 | 68960 | | 0.195 4103 | 29913 | |
| 20.5 | 0.872 6118 | 41553 | +1215 | 0.457 3748 | 68630 | −1950 | 0.198 4016 | 29770 | −848 |
| 21.0 | 0.868 4565 | 42188 | | 0.464 2378 | 68295 | | 0.201 3786 | 29626 | |
| 21.5 | 0.864 2377 | 42819 | 1251 | 0.471 0673 | 67954 | 1931 | 0.204 3412 | 29479 | 840 |
| 22.0 | 0.859 9558 | 43447 | | 0.477 8627 | 67609 | | 0.207 2891 | 29329 | |
| 22.5 | 0.855 6111 | 44072 | 1287 | 0.484 6236 | 67259 | 1912 | 0.210 2220 | 29178 | 832 |
| 23.0 | 0.851 2039 | 44694 | | 0.491 3495 | 66904 | | 0.213 1398 | 29024 | |
| 23.5 | 0.846 7345 | 45314 | 1323 | 0.498 0399 | 66544 | 1892 | 0.216 0422 | 28868 | 823 |
| 24.0 | 0.842 2031 | | | 0.504 6943 | | | 0.218 9290 | | |

Mittl. Äquator und Mittl. Äquinoktium 1911.0

| 1911 | X | | Red. auf 1910.0 | Y | | Red. auf 1910.0 | Z | | Red. auf 1910.0 |
|---|---|---|---|---|---|---|---|---|---|
| | + | | | + | | | + | | |
| April 24.0 | 0.842 2031 | 45929 | | 0.504 6943 | 66179 | | 0.218 9290 | 28710 | |
| 24.5 | 0.837 6102 | 46542 | +1358 | 0.511 3122 | 65808 | −1871 | 0.221 8000 | 28549 | −814 |
| 25.0 | 0.832 9560 | 47151 | | 0.517 8930 | 65432 | | 0.224 6549 | 28386 | |
| 25.5 | 0.828 2409 | 47757 | 1393 | 0.524 4362 | 65053 | 1850 | 0.227 4935 | 28222 | 805 |
| 26.0 | 0.823 4652 | 48359 | | 0.530 9415 | 64668 | | 0.230 3157 | 28055 | |
| 26.5 | 0.818 6293 | 48957 | 1427 | 0.537 4083 | 64277 | 1829 | 0.233 1212 | 27886 | 796 |
| 27.0 | 0.813 7336 | 49551 | | 0.543 8360 | 63881 | | 0.235 9098 | 27714 | |
| 27.5 | 0.808 7785 | 50141 | 1461 | 0.550 2241 | 63481 | 1807 | 0.238 6812 | 27541 | 786 |
| 28.0 | 0.803 7644 | 50727 | | 0.556 5722 | 63076 | | 0.241 4353 | 27365 | |
| 28.5 | 0.798 6917 | | 1495 | 0.562 8798 | | 1785 | 0.244 1718 | | 776 |
| | + | 51309 | | + | 62666 | | + | 27188 | |
| 29.0 | 0.793 5608 | 51887 | | 0.569 1464 | 62251 | | 0.246 8906 | 27008 | |
| 29.5 | 0.788 3721 | 52460 | +1528 | 0.575 3715 | 61831 | −1762 | 0.249 5914 | 26825 | −766 |
| 30.0 | 0.783 1261 | 53029 | | 0.581 5546 | 61406 | | 0.252 2739 | 26641 | |
| 30.5 | 0.777 8232 | 53593 | 1561 | 0.587 6952 | 60977 | 1738 | 0.254 9380 | 26456 | 756 |
| Mai 1.0 | 0.772 4639 | 54153 | | 0.593 7929 | 60544 | | 0.257 5836 | 26267 | |
| 1.5 | 0.767 0486 | 54708 | 1593 | 0.599 8473 | 60106 | 1714 | 0.260 2103 | 26077 | 746 |
| 2.0 | 0.761 5778 | 55258 | | 0.605 8579 | 59665 | | 0.262 8180 | 25884 | |
| 2.5 | 0.756 0520 | 55802 | 1625 | 0.611 8244 | 59219 | 1689 | 0.265 4064 | 25691 | 735 |
| 3.0 | 0.750 4718 | 56343 | | 0.617 7463 | 58770 | | 0.267 9755 | 25495 | |
| 3.5 | 0.744 8375 | | 1656 | 0.623 6233 | | 1664 | 0.270 5250 | | 724 |
| | + | 56878 | | + | 58317 | | + | 25298 | |
| 4.0 | 0.739 1497 | 57409 | | 0.629 4550 | 57859 | | 0.273 0548 | 25100 | |
| 4.5 | 0.733 4088 | 57936 | +1687 | 0.635 2409 | 57398 | −1639 | 0.275 5648 | 24900 | −713 |
| 5.0 | 0.727 6152 | 58457 | | 0.640 9807 | 56933 | | 0.278 0548 | 24697 | |
| 5.5 | 0.721 7695 | 58974 | 1717 | 0.646 6740 | 56464 | 1613 | 0.280 5245 | 24494 | 702 |
| 6.0 | 0.715 8721 | 59486 | | 0.652 3204 | 55993 | | 0.282 9739 | 24289 | |
| 6.5 | 0.709 9235 | 59994 | 1747 | 0.657 9197 | 55518 | 1586 | 0.285 4028 | 24082 | 690 |
| 7.0 | 0.703 9241 | 60496 | | 0.663 4715 | 55039 | | 0.287 8110 | 23874 | |
| 7.5 | 0.697 8745 | 60995 | 1776 | 0.668 9754 | 54557 | 1559 | 0.290 1984 | 23664 | 678 |
| 8.0 | 0.691 7750 | 61489 | | 0.674 4311 | 54072 | | 0.292 5648 | 23453 | |
| 8.5 | 0.685 6261 | | 1805 | 0.679 8383 | | 1532 | 0.294 9101 | | 666 |
| | + | 61978 | | + | 53583 | | + | 23241 | |
| 9.0 | 0.679 4283 | 62462 | | 0.685 1966 | 53091 | | 0.297 2342 | 23028 | |
| 9.5 | 0.673 1821 | 62941 | +1833 | 0.690 5057 | 52597 | −1504 | 0.299 5370 | 22813 | −654 |
| 10.0 | 0.666 8880 | 63416 | | 0.695 7654 | 52098 | | 0.301 8183 | 22596 | |
| 10.5 | 0.660 5464 | 63887 | 1861 | 0.700 9752 | 51596 | 1476 | 0.304 0779 | 22378 | 642 |
| 11.0 | 0.654 1577 | 64353 | | 0.706 1348 | 51091 | | 0.306 3157 | 22159 | |
| 11.5 | 0.647 7224 | 64814 | 1888 | 0.711 2439 | 50582 | 1447 | 0.308 5316 | 21939 | 630 |
| 12.0 | 0.641 2410 | 65272 | | 0.716 3021 | 50070 | | 0.310 7255 | 21716 | |
| 12.5 | 0.634 7138 | 65724 | 1915 | 0.721 3091 | 49556 | 1418 | 0.312 8971 | 21493 | 617 |
| 13.0 | 0.628 1414 | | | 0.726 2647 | | | 0.315 0464 | | |

Mittl. Äquator und Mittl. Äquinoktium 1911.0

| 1911 | | X | | Red. auf 1910.0 | Y | | Red. auf 1910.0 | Z | | Red. auf 1910.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | + | | | + | | | + | | |
| Mai | 13.0 | 0.628 1414 | 66173 | | 0.726 2647 | 49038 | | 0.315 0464 | 21269 | |
| | 13.5 | 0.621 5241 | 66616 | +1941 | 0.731 1685 | 48517 | −1389 | 0.317 1733 | 21043 | −604 |
| | 14.0 | 0.614 8625 | 67056 | | 0.736 0202 | 47993 | | 0.319 2776 | 20816 | |
| | 14.5 | 0.608 1569 | 67490 | 1967 | 0.740 8195 | 47465 | 1359 | 0.321 3592 | 20588 | 591 |
| | 15.0 | 0.601 4079 | 67919 | | 0.745 5660 | 46935 | | 0.323 4180 | 20358 | |
| | 15.5 | 0.594 6160 | 68344 | 1992 | 0.750 2595 | 46402 | 1329 | 0.325 4538 | 20126 | 578 |
| | 16.0 | 0.587 7816 | 68765 | | 0.754 8997 | 45865 | | 0.327 4664 | 19894 | |
| | 16.5 | 0.580 9051 | 69180 | 2017 | 0.759 4862 | 45324 | 1298 | 0.329 4558 | 19660 | 565 |
| | 17.0 | 0.573 9871 | 69592 | | 0.764 0186 | 44781 | | 0.331 4218 | 19424 | |
| | 17.5 | 0.567 0279 | 69998 | 2041 | 0.768 4967 | 44235 | 1267 | 0.333 3642 | 19188 | 552 |
| | | + | | | + | | | + | | |
| | 18.0 | 0.560 0281 | 70400 | | 0.772 9202 | 43686 | | 0.335 2830 | 18950 | |
| | 18.5 | 0.552 9881 | 70797 | +2064 | 0.777 2888 | 43134 | −1236 | 0.337 1780 | 18711 | −538 |
| | 19.0 | 0.545 9084 | 71189 | | 0.781 6022 | 42578 | | 0.339 0491 | 18470 | |
| | 19.5 | 0.538 7895 | 71575 | 2087 | 0.785 8600 | 42020 | 1204 | 0.340 8961 | 18229 | 524 |
| | 20.0 | 0.531 6320 | 71957 | | 0.790 0620 | 41458 | | 0.342 7190 | 17986 | |
| | 20.5 | 0.524 4363 | 72335 | 2109 | 0.794 2078 | 40894 | 1172 | 0.344 5176 | 17741 | 510 |
| | 21.0 | 0.517 2028 | 72707 | | 0.798 2972 | 40327 | | 0.346 2917 | 17495 | |
| | 21.5 | 0.509 9321 | 73074 | 2131 | 0.802 3299 | 39756 | 1139 | 0.348 0412 | 17248 | 496 |
| | 22.0 | 0.502 6247 | 73437 | | 0.806 3055 | 39182 | | 0.349 7660 | 17000 | |
| | 22.5 | 0.495 2810 | 73795 | 2152 | 0.810 2237 | 38605 | 1106 | 0.351 4660 | 16750 | 481 |
| | | + | | | + | | | + | | |
| | 23.0 | 0.487 9015 | 74146 | | 0.814 0842 | 38026 | | 0.353 1410 | 16498 | |
| | 23.5 | 0.480 4869 | 74492 | +2172 | 0.817 8868 | 37443 | −1073 | 0.354 7908 | 16245 | −467 |
| | 24.0 | 0.473 0377 | 74834 | | 0.821 6311 | 36857 | | 0.356 4153 | 15992 | |
| | 24.5 | 0.465 5543 | 75169 | 2192 | 0.825 3168 | 36269 | 1040 | 0.358 0145 | 15736 | 452 |
| | 25.0 | 0.458 0374 | 75499 | | 0.828 9437 | 35677 | | 0.359 5881 | 15479 | |
| | 25.5 | 0.450 4875 | 75824 | 2211 | 0.832 5114 | 35083 | 1006 | 0.361 1360 | 15222 | 437 |
| | 26.0 | 0.442 9051 | 76142 | | 0.836 0197 | 34485 | | 0.362 6582 | 14963 | |
| | 26.5 | 0.435 2909 | 76455 | 2230 | 0.839 4682 | 33885 | 972 | 0.364 1545 | 14703 | 422 |
| | 27.0 | 0.427 6454 | 76762 | | 0.842 8567 | 33282 | | 0.365 6248 | 14441 | |
| | 27.5 | 0.419 9692 | 77062 | 2248 | 0.846 1849 | 32677 | 938 | 0.367 0689 | 14179 | 407 |
| | | + | | | + | | | + | | |
| | 28.0 | 0.412 2630 | 77356 | | 0.849 4526 | 32069 | | 0.368 4868 | 13915 | |
| | 28.5 | 0.404 5274 | 77645 | +2265 | 0.852 6595 | 31459 | − 904 | 0.369 8783 | 13651 | −392 |
| | 29.0 | 0.396 7629 | 77927 | | 0.855 8054 | 30847 | | 0.371 2434 | 13385 | |
| | 29.5 | 0.388 9702 | 78203 | 2281 | 0.858 8901 | 30234 | 869 | 0.372 5819 | 13118 | 377 |
| | 30.0 | 0.381 1499 | 78473 | | 0.861 9135 | 29618 | | 0.373 8937 | 12850 | |
| | 30.5 | 0.373 3026 | 78737 | 2297 | 0.864 8753 | 29001 | 834 | 0.375 1787 | 12581 | 362 |
| | 31.0 | 0.365 4289 | 78994 | | 0.867 7754 | 28382 | | 0.376 4368 | 12312 | |
| | 31.5 | 0.357 5295 | 79246 | 2312 | 0.870 6136 | 27762 | 799 | 0.377 6680 | 12043 | 347 |
| Juni | 1.0 | 0.349 6049 | | | 0.873 3898 | | | 0.378 8723 | | |

Mittl. Äquator und Mittl. Äquinoktium 1911.0

| 1911 | X | | Red. auf 1910.0 | Y | | Red. auf 1910.0 | Z | | Red. auf 1910.0 |
|---|---|---|---|---|---|---|---|---|---|
| | + | | | + | | | + | | |
| Juni 1.0 | 0.349 6049 | 79491 | | 0.873 3898 | 27139 | | 0.378 8723 | 11773 | |
| 1.5 | 0.341 6558 | 79729 | +2327 | 0.876 1037 | 26514 | −764 | 0.380 0496 | 11502 | −331 |
| 2.0 | 0.333 6829 | 79963 | | 0.878 7551 | 25889 | | 0.381 1998 | 11230 | |
| 2.5 | 0.325 6866 | 80190 | 2341 | 0.881 3440 | 25263 | 728 | 0.382 3228 | 10958 | 316 |
| 3.0 | 0.317 6676 | 80411 | | 0.883 8703 | 24635 | | 0.383 4186 | 10685 | |
| 3.5 | 0.309 6265 | 80627 | 2354 | 0.886 3338 | 24006 | 692 | 0.384 4871 | 10412 | 300 |
| 4.0 | 0.301 5638 | 80837 | | 0.888 7344 | 23375 | | 0.385 5283 | 10138 | |
| 4.5 | 0.293 4801 | 81040 | 2366 | 0.891 0719 | 22744 | 656 | 0.386 5421 | 9864 | 284 |
| 5.0 | 0.285 3761 | 81238 | | 0.893 3463 | 22113 | | 0.387 5285 | 9589 | |
| 5.5 | 0.277 2523 | 81430 | 2378 | 0.895 5576 | 21479 | 620 | 0.388 4874 | 9315 | 269 |
| | + | | | + | | | + | | |
| 6.0 | 0.269 1093 | 81617 | | 0.897 7055 | 20845 | | 0.389 4189 | 9039 | |
| 6.5 | 0.260 9476 | 81798 | +2389 | 0.899 7900 | 20209 | −584 | 0.390 3228 | 8763 | −253 |
| 7.0 | 0.252 7678 | 81973 | | 0.901 8109 | 19573 | | 0.391 1991 | 8487 | |
| 7.5 | 0.244 5705 | 82142 | 2400 | 0.903 7682 | 18936 | 547 | 0.392 0478 | 8210 | 238 |
| 8.0 | 0.236 3563 | 82307 | | 0.905 6618 | 18298 | | 0.392 8688 | 7934 | |
| 8.5 | 0.228 1256 | 82466 | 2410 | 0.907 4916 | 17658 | 510 | 0.393 6622 | 7657 | 222 |
| 9.0 | 0.219 8790 | 82619 | | 0.909 2574 | 17017 | | 0.394 4279 | 7379 | |
| 9.5 | 0.211 6171 | 82767 | 2419 | 0.910 9591 | 16376 | 473 | 0.395 1658 | 7101 | 206 |
| 10.0 | 0.203 3404 | 82909 | | 0.912 5967 | 15735 | | 0.395 8759 | 6823 | |
| 10.5 | 0.195 0495 | 83046 | 2427 | 0.914 1702 | 15091 | 436 | 0.396 5582 | 6544 | 190 |
| | + | | | + | | | + | | |
| 11.0 | 0.186 7449 | 83177 | | 0.915 6793 | 14447 | | 0.397 2126 | 6264 | |
| 11.5 | 0.178 4272 | 83303 | +2435 | 0.917 1240 | 13803 | −399 | 0.397 8390 | 5985 | −174 |
| 12.0 | 0.170 0969 | 83422 | | 0.918 5043 | 13157 | | 0.398 4375 | 5705 | |
| 12.5 | 0.161 7547 | 83536 | 2442 | 0.919 8200 | 12511 | 362 | 0.399 0080 | 5425 | 157 |
| 13.0 | 0.153 4011 | 83645 | | 0.921 0711 | 11864 | | 0.399 5505 | 5145 | |
| 13.5 | 0.145 0366 | 83748 | 2449 | 0.922 2575 | 11216 | 324 | 0.400 0650 | 4864 | 141 |
| 14.0 | 0.136 6618 | 83846 | | 0.923 3791 | 10567 | | 0.400 5514 | 4583 | |
| 14.5 | 0.128 2772 | 83938 | 2455 | 0.924 4358 | 9918 | 287 | 0.401 0097 | 4302 | 125 |
| 15.0 | 0.119 8834 | 84025 | | 0.925 4276 | 9268 | | 0.401 4399 | 4020 | |
| 15.5 | 0.111 4809 | 84106 | 2460 | 0.926 3544 | 8617 | 249 | 0.401 8419 | 3738 | 109 |
| | + | | | + | | | + | | |
| 16.0 | 0.103 0703 | 84181 | | 0.927 2161 | 7965 | | 0.402 2157 | 3456 | |
| 16.5 | 0.094 6522 | 84250 | +2464 | 0.928 0126 | 7312 | −212 | 0.402 5613 | 3174 | −92 |
| 17.0 | 0.086 2272 | 84314 | | 0.928 7438 | 6659 | | 0.402 8787 | 2891 | |
| 17.5 | 0.077 7958 | 84373 | 2468 | 0.929 4097 | 6005 | 174 | 0.403 1678 | 2607 | 76 |
| 18.0 | 0.069 3585 | 84426 | | 0.930 0102 | 5351 | | 0.403 4285 | 2323 | |
| 18.5 | 0.060 9159 | 84473 | 2471 | 0.930 5453 | 4695 | 137 | 0.403 6608 | 2039 | 59 |
| 19.0 | 0.052 4686 | 84514 | | 0.931 0148 | 4039 | | 0.403 8647 | 1755 | |
| 19.5 | 0.044 0172 | 84549 | 2473 | 0.931 4187 | 3383 | 99 | 0.404 0402 | 1470 | 43 |
| 20.0 | 0.035 5623 | | | 0.931 7570 | | | 0.404 1872 | | |

Mittl. Äquator und Mittl. Äquinoktium 1911.0

| 1911 | X | | Red. auf 1910.0 | Y | | Red. auf 1910.0 | Z | | Red. auf 1910.0 |
|---|---|---|---|---|---|---|---|---|---|
| | + | | | + | | | + | | |
| Juni 20.0 | 0.035 5623 | 84578 | | 0.931 7570 | 2725 | | 0.404 1872 | 1185 | |
| 20.5 | 0.027 1045 | 84602 | +2475 | 0.932 0295 | 2067 | − 61 | 0.404 3057 | 901 | − 27 |
| 21.0 | 0.018 6443 | 84619 | | 0.932 2362 | 1409 | | 0.404 3958 | 615 | |
| 21.5 | 0.010 1824 | 84630 | 2476 | 0.932 3771 | 751 | − 23 | 0.404 4573 | 329 | − 10 |
| 22.0 | 0.001 7194 | | | 0.932 4522 | | | 0.404 4902 | | |
| | — | 84635 | | + | 92 | | + | 43 | |
| 22.5 | 0.006 7441 | 84633 | 2476 | 0.932 4614 | 568 | + 15 | 0.404 4945 | 243 | + 6 |
| 23.0 | 0.015 2074 | 84626 | | 0.932 4046 | 1229 | | 0.404 4702 | 529 | |
| 23.5 | 0.023 6700 | 84613 | 2476 | 0.932 2817 | 1888 | 52 | 0.404 4173 | 815 | 23 |
| 24.0 | 0.032 1313 | 84592 | | 0.932 0929 | 2548 | | 0.404 3358 | 1102 | |
| 24.5 | 0.040 5905 | | 2475 | 0.931 8381 | | 90 | 0.404 2256 | | 39 |
| | — | 84564 | | + | 3208 | | + | 1389 | |
| 25.0 | 0.049 0469 | 84531 | | 0.931 5173 | 3868 | | 0.404 0867 | 1676 | |
| 25.5 | 0.057 5000 | 84491 | +2473 | 0.931 1305 | 4528 | +128 | 0.403 9191 | 1962 | + 56 |
| 26.0 | 0.065 9491 | 84444 | | 0.930 6777 | 5188 | | 0.403 7229 | 2248 | |
| 26.5 | 0.074 3935 | 84391 | 2470 | 0.930 1589 | 5847 | 166 | 0.403 4981 | 2534 | 72 |
| 27.0 | 0.082 8326 | 84331 | | 0.929 5742 | 6505 | | 0.403 2447 | 2820 | |
| 27.5 | 0.091 2657 | 84265 | 2467 | 0.928 9237 | 7163 | 203 | 0.402 9627 | 3106 | 89 |
| 28.0 | 0.099 6922 | 84192 | | 0.928 2074 | 7820 | | 0.402 6521 | 3392 | |
| 28.5 | 0.108 1114 | 84113 | 2463 | 0.927 4254 | 8477 | 241 | 0.402 3129 | 3677 | 105 |
| 29.0 | 0.116 5227 | 84028 | | 0.926 5777 | 9131 | | 0.401 9452 | 3961 | |
| 29.5 | 0.124 9255 | | 2458 | 0.925 6646 | | 279 | 0.401 5491 | | 121 |
| | — | 83936 | | + | 9784 | | + | 4245 | |
| 30.0 | 0.133 3191 | 83839 | | 0.924 6862 | 10437 | | 0.401 1246 | 4529 | |
| 30.5 | 0.141 7030 | 83736 | +2453 | 0.923 6425 | 11089 | +317 | 0.400 6717 | 4812 | +138 |
| Juli 1.0 | 0.150 0766 | 83626 | | 0.922 5336 | 11738 | | 0.400 1905 | 5094 | |
| 1.5 | 0.158 4392 | 83509 | 2447 | 0.921 3598 | 12387 | 354 | 0.399 6811 | 5376 | 154 |
| 2.0 | 0.166 7901 | 83388 | | 0.920 1211 | 13035 | | 0.399 1435 | 5657 | |
| 2.5 | 0.175 1289 | 83261 | 2440 | 0.918 8176 | 13681 | 391 | 0.398 5778 | 5938 | 170 |
| 3.0 | 0.183 4550 | 83128 | | 0.917 4495 | 14326 | | 0.397 9840 | 6217 | |
| 3.5 | 0.191 7678 | 82989 | 2433 | 0.916 0169 | 14970 | 428 | 0.397 3623 | 6497 | 186 |
| 4.0 | 0.200 0667 | 82844 | | 0.914 5199 | 15613 | | 0.396 7126 | 6776 | |
| 4.5 | 0.208 3511 | | 2425 | 0.912 9586 | | 465 | 0.396 0350 | | 202 |
| | — | 82694 | | + | 16253 | | + | 7054 | |
| 5.0 | 0.216 6205 | 82539 | | 0.911 3333 | 16893 | | 0.395 3296 | 7331 | |
| 5.5 | 0.224 8744 | 82378 | +2416 | 0.909 6440 | 17531 | +502 | 0.394 5965 | 7608 | +218 |
| 6.0 | 0.233 1122 | 82211 | | 0.907 8909 | 18167 | | 0.393 8357 | 7884 | |
| 6.5 | 0.241 3333 | 82039 | 2406 | 0.906 0742 | 18802 | 539 | 0.393 0473 | 8160 | 234 |
| 7.0 | 0.249 5372 | 81862 | | 0.904 1940 | 19436 | | 0.392 2313 | 8434 | |
| 7.5 | 0.257 7234 | 81679 | 2396 | 0.902 2504 | 20068 | 575 | 0.391 3879 | 8707 | 250 |
| 8.0 | 0.265 8913 | 81491 | | 0.900 2436 | 20698 | | 0.390 5172 | 8981 | |
| 8.5 | 0.274 0404 | 81297 | 2385 | 0.898 1738 | 21327 | 612 | 0.389 6191 | 9254 | 266 |
| 9.0 | 0.282 1701 | | | 0.896 0411 | | | 0.388 6937 | | |

Mittl. Äquator und Mittl. Äquinoktium 1911.0

| 1911 | X | | Red. auf 1910.0 | Y | | Red. auf 1910.0 | Z | | Red. auf 1910.0 |
|---|---|---|---|---|---|---|---|---|---|
| | — | | | + | | | + | | |
| Juli 9.0 | 0.282 1701 | 81098 | | 0.896 0411 | 21955 | | 0.388 6937 | 9526 | |
| 9.5 | 0.290 2799 | 80894 | +2374 | 0.893 8456 | 22581 | + 648 | 0.387 7411 | 9797 | +282 |
| 10.0 | 0.298 3693 | 80683 | | 0.891 5875 | 23205 | | 0.386 7614 | 10068 | |
| 10.5 | 0.306 4376 | 80468 | 2362 | 0.889 2670 | 23828 | 684 | 0.385 7546 | 10338 | 298 |
| 11.0 | 0.314 4844 | 80248 | | 0.886 8842 | 24450 | | 0.384 7208 | 10607 | |
| 11.5 | 0.322 5092 | 80023 | 2349 | 0.884 4392 | 25069 | 720 | 0.383 6601 | 10875 | 313 |
| 12.0 | 0.330 5115 | 79792 | | 0.881 9323 | 25687 | | 0.382 5726 | 11143 | |
| 12.5 | 0.338 4907 | 79556 | 2335 | 0.879 3636 | 26304 | 756 | 0.381 4583 | 11411 | 329 |
| 13.0 | 0.346 4463 | 79314 | | 0.876 7332 | 26920 | | 0.380 3172 | 11677 | |
| 13.5 | 0.354 3777 | | 2321 | 0.874 0412 | | 791 | 0.379 1495 | | 344 |
| | — | 79067 | | + | 27534 | | + | 11942 | |
| 14.0 | 0.362 2844 | 78815 | | 0.871 2878 | 28145 | | 0.377 9553 | 12207 | |
| 14.5 | 0.370 1659 | 78558 | +2306 | 0.868 4733 | 28755 | + 827 | 0.376 7346 | 12472 | +360 |
| 15.0 | 0.378 0217 | 78295 | | 0.865 5978 | 29363 | | 0.375 4874 | 12735 | |
| 15.5 | 0.385 8512 | 78027 | 2291 | 0.862 6615 | 29970 | 862 | 0.374 2139 | 12998 | 375 |
| 16.0 | 0.393 6539 | 77753 | | 0.859 6645 | 30575 | | 0.372 9141 | 13261 | |
| 16.5 | 0.401 4292 | 77475 | 2275 | 0.856 6070 | 31178 | 897 | 0.371 5880 | 13523 | 390 |
| 17.0 | 0.409 1767 | 77190 | | 0.853 4892 | 31780 | | 0.370 2357 | 13783 | |
| 17.5 | 0.416 8957 | 76901 | 2258 | 0.850 3112 | 32380 | 932 | 0.368 8574 | 14043 | 405 |
| 18.0 | 0.424 5858 | 76606 | | 0.847 0732 | 32978 | | 0.367 4531 | 14302 | |
| 18.5 | 0.432 2464 | | 2241 | 0.843 7754 | | 966 | 0.366 0229 | | 420 |
| | — | 76305 | | + | 33574 | | + | 14560 | |
| 19.0 | 0.439 8769 | 75998 | | 0.840 4180 | 34168 | | 0.364 5669 | 14818 | |
| 19.5 | 0.447 4767 | 75687 | +2223 | 0.837 0012 | 34761 | +1000 | 0.363 0851 | 15076 | +435 |
| 20.0 | 0.455 0454 | 75369 | | 0.833 5251 | 35351 | | 0.361 5775 | 15332 | |
| 20.5 | 0.462 5823 | 75046 | 2204 | 0.829 9900 | 35939 | 1034 | 0.360 0443 | 15587 | 450 |
| 21.0 | 0.470 0869 | 74717 | | 0.826 3961 | 36525 | | 0.358 4856 | 15841 | |
| 21.5 | 0.477 5586 | 74382 | 2185 | 0.822 7436 | 37109 | 1067 | 0.356 9015 | 16095 | 464 |
| 22.0 | 0.484 9968 | 74041 | | 0.819 0327 | 37691 | | 0.355 2920 | 16348 | |
| 22.5 | 0.492 4009 | 73695 | 2165 | 0.815 2636 | 38271 | 1100 | 0.353 6572 | 16599 | 479 |
| 23.0 | 0.499 7704 | 73343 | | 0.811 4365 | 38848 | | 0.351 9973 | 16849 | |
| 23.5 | 0.507 1047 | | 2145 | 0.807 5517 | | 1133 | 0.350 3124 | | 493 |
| | — | 72984 | | + | 39422 | | + | 17099 | |
| 24.0 | 0.514 4031 | 72620 | | 0.803 6095 | 39993 | | 0.348 6025 | 17347 | |
| 24.5 | 0.521 6651 | 72251 | +2124 | 0.799 6102 | 40561 | +1166 | 0.346 8678 | 17594 | +507 |
| 25.0 | 0.528 8902 | 71876 | | 0.795 5541 | 41126 | | 0.345 1084 | 17840 | |
| 25.5 | 0.536 0778 | 71495 | 2102 | 0.791 4415 | 41688 | 1198 | 0.343 3244 | 18084 | 521 |
| 26.0 | 0.543 2273 | 71107 | | 0.787 2727 | 42248 | | 0.341 5160 | 18327 | |
| 26.5 | 0.550 3380 | 70715 | 2080 | 0.783 0479 | 42803 | 1230 | 0.339 6833 | 18568 | 535 |
| 27.0 | 0.557 4095 | 70318 | | 0.778 7676 | 43355 | | 0.337 8265 | 18809 | |
| 27.5 | 0.564 4413 | 69916 | 2057 | 0.774 4321 | 43904 | 1261 | 0.335 9456 | 19047 | 549 |
| 28.0 | 0.571 4329 | | | 0.770 0417 | | | 0.334 0409 | | |

Mittl. Äquator und Mittl. Äquinoktium 1911.0

| 1911 | X | | Red. auf 1910.0 | Y | | Red. auf 1910.0 | Z | | Red. auf 1910.0 |
|---|---|---|---|---|---|---|---|---|---|
| | — | | | + | | | + | | |
| Juli 28.0 | 0.571 4329 | 69508 | | 0.770 0417 | 44450 | | 0.334 0409 | 19283 | |
| 28.5 | 0.578 3837 | 69095 | +2034 | 0.765 5967 | 44991 | +1292 | 0.332 1126 | 19519 | +563 |
| 29.0 | 0.585 2932 | 68676 | | 0.761 0976 | 45529 | | 0.330 1607 | 19753 | |
| 29.5 | 0.592 1608 | 68254 | 2010 | 0.756 5447 | 46064 | 1323 | 0.328 1854 | 19985 | 576 |
| 30.0 | 0.598 9862 | 67826 | | 0.751 9383 | 46596 | | 0.326 1869 | 20216 | |
| 30.5 | 0.605 7688 | 67394 | 1985 | 0.747 2787 | 47123 | 1353 | 0.324 1653 | 20445 | 589 |
| 31.0 | 0.612 5082 | 66957 | | 0.742 5664 | 47647 | | 0.322 1208 | 20672 | |
| 31.5 | 0.619 2039 | 66515 | 1960 | 0.737 8017 | 48167 | 1383 | 0.320 0536 | 20897 | 602 |
| Aug. 1.0 | 0.625 8554 | 66069 | | 0.732 9850 | 48683 | | 0.317 9639 | 21122 | |
| 1.5 | 0.632 4623 | | 1934 | 0.728 1167 | | 1413 | 0.315 8517 | | 615 |
| | — | 65619 | | + | 49196 | | + | 21344 | |
| 2.0 | 0.639 0242 | 65163 | | 0.723 1971 | 49706 | | 0.313 7173 | 21565 | |
| 2.5 | 0.645 5405 | 64703 | +1908 | 0.718 2265 | 50213 | +1442 | 0.311 5608 | 21785 | +627 |
| 3.0 | 0.652 0108 | 64240 | | 0.713 2052 | 50715 | | 0.309 3823 | 22003 | |
| 3.5 | 0.658 4348 | 63772 | 1881 | 0.708 1337 | 51214 | 1471 | 0.307 1820 | 22219 | 640 |
| 4.0 | 0.664 8120 | 63300 | | 0.703 0123 | 51708 | | 0.304 9601 | 22434 | |
| 4.5 | 0.671 1420 | 62823 | 1854 | 0.697 8415 | 52200 | 1499 | 0.302 7167 | 22646 | 652 |
| 5.0 | 0.677 4243 | 62342 | | 0.692 6215 | 52688 | | 0.300 4521 | 22858 | |
| 5.5 | 0.683 6585 | 61858 | 1826 | 0.687 3527 | 53172 | 1527 | 0.298 1663 | 23067 | 664 |
| 6.0 | 0.689 8443 | 61368 | | 0.682 0355 | 53652 | | 0.295 8596 | 23275 | |
| 6.5 | 0.695 9811 | | 1797 | 0.676 6703 | | 1555 | 0.293 5321 | | 676 |
| | — | 60875 | | + | 54128 | | + | 23482 | |
| 7.0 | 0.702 0686 | 60377 | | 0.671 2575 | 54601 | | 0.291 1839 | 23686 | |
| 7.5 | 0.708 1063 | 59876 | +1768 | 0.665 7974 | 55071 | +1582 | 0.288 8153 | 23890 | +688 |
| 8.0 | 0.714 0939 | 59371 | | 0.660 2903 | 55537 | | 0.286 4263 | 24092 | |
| 8.5 | 0.720 0310 | 58862 | 1739 | 0.654 7366 | 55999 | 1609 | 0.284 0171 | 24292 | 700 |
| 9.0 | 0.725 9172 | 58349 | | 0.649 1367 | 56457 | | 0.281 5879 | 24491 | |
| 9.5 | 0.731 7521 | 57831 | 1709 | 0.643 4910 | 56912 | 1635 | 0.279 1388 | 24688 | 711 |
| 10.0 | 0.737 5352 | 57310 | | 0.637 7998 | 57364 | | 0.276 6700 | 24882 | |
| 10.5 | 0.743 2662 | 56786 | 1679 | 0.632 0634 | 57811 | 1661 | 0.274 1818 | 25075 | 722 |
| 11.0 | 0.748 9448 | 56257 | | 0.626 2823 | 58254 | | 0.271 6743 | 25268 | |
| 11.5 | 0.754 5705 | | 1648 | 0.620 4569 | | 1686 | 0.269 1475 | | 733 |
| | — | 55724 | | + | 58694 | | + | 25458 | |
| 12.0 | 0.760 1429 | 55188 | | 0.614 5875 | 59130 | | 0.266 6017 | 25648 | |
| 12.5 | 0.765 6617 | 54647 | +1617 | 0.608 6745 | 59562 | +1711 | 0.264 0369 | 25835 | +744 |
| 13.0 | 0.771 1264 | 54102 | | 0.602 7183 | 59992 | | 0.261 4534 | 26021 | |
| 13.5 | 0.776 5366 | 53554 | 1585 | 0.596 7191 | 60417 | 1735 | 0.258 8513 | 26206 | 755 |
| 14.0 | 0.781 8920 | 53001 | | 0.590 6774 | 60839 | | 0.256 2307 | 26388 | |
| 14.5 | 0.787 1921 | 52444 | 1553 | 0.584 5935 | 61257 | 1759 | 0.253 5919 | 26569 | 765 |
| 15.0 | 0.792 4365 | 51883 | | 0.578 4678 | 61670 | | 0.250 9350 | 26748 | |
| 15.5 | 0.797 6248 | 51319 | 1520 | 0.572 3008 | 62080 | 1782 | 0.248 2602 | 26926 | 775 |
| 16.0 | 0.802 7567 | | | 0.566 0928 | | | 0.245 5676 | | |

Mittl. Äquator und Mittl. Äquinoktium 1911.0

| 1911 | X | | Red. auf 1910.0 | Y | | Red. auf 1910.0 | Z | | Red. auf 1910.0 |
|---|---|---|---|---|---|---|---|---|---|
| | — | | | + | | | + | | |
| Aug. 16.0 | 0.802 7567 | 50750 | | 0.566 0928 | 62486 | | 0.245 5676 | 27102 | |
| 16.5 | 0.807 8317 | 50178 | +1487 | 0.559 8442 | 62888 | +1805 | 0.242 8574 | 27277 | +785 |
| 17.0 | 0.812 8495 | 49600 | | 0.553 5554 | 63285 | | 0.240 1297 | 27449 | |
| 17.5 | 0.817 8095 | 49018 | 1454 | 0.547 2269 | 63679 | 1827 | 0.237 3848 | 27620 | 795 |
| 18.0 | 0.822 7113 | 48433 | | 0.540 8590 | 64069 | | 0.234 6228 | 27790 | |
| 18.5 | 0.827 5546 | 47844 | 1420 | 0.534 4521 | 64454 | 1849 | 0.231 8438 | 27958 | 804 |
| 19.0 | 0.832 3390 | 47250 | | 0.528 0067 | 64835 | | 0.229 0480 | 28123 | |
| 19.5 | 0.837 0640 | 46653 | 1386 | 0.521 5232 | 65212 | 1870 | 0.226 2357 | 28286 | 813 |
| 20.0 | 0.841 7293 | 46051 | | 0.515 0020 | 65583 | | 0.223 4071 | 28448 | |
| 20.5 | 0.846 3344 | | 1351 | 0.508 4437 | | 1891 | 0.220 5623 | | 822 |
| | — | 45446 | | + | 65950 | | + | 28608 | |
| 21.0 | 0.850 8790 | 44836 | | 0.501 8487 | 66313 | | 0.217 7015 | 28766 | |
| 21.5 | 0.855 3626 | 44222 | +1316 | 0.495 2174 | 66671 | +1911 | 0.214 8249 | 28921 | +831 |
| 22.0 | 0.859 7848 | 43605 | | 0.488 5503 | 67023 | | 0.211 9328 | 29074 | |
| 22.5 | 0.864 1453 | 42983 | 1280 | 0.481 8480 | 67371 | 1931 | 0.209 0254 | 29225 | 839 |
| 23.0 | 0.868 4436 | 42358 | | 0.475 1109 | 67713 | | 0.206 1029 | 29374 | |
| 23.5 | 0.872 6794 | 41730 | 1244 | 0.468 3396 | 68051 | 1950 | 0.203 1655 | 29521 | 848 |
| 24.0 | 0.876 8524 | 41098 | | 0.461 5345 | 68383 | | 0.200 2134 | 29666 | |
| 24.5 | 0.880 9622 | 40463 | 1208 | 0.454 6962 | 68709 | 1968 | 0.197 2468 | 29808 | 856 |
| 25.0 | 0.885 0085 | 39825 | | 0.447 8253 | 69031 | | 0.194 2660 | 29948 | |
| 25.5 | 0.888 9910 | | 1171 | 0.440 9222 | | 1986 | 0.191 2712 | | 864 |
| | — | 39184 | | + | 69348 | | + | 30086 | |
| 26.0 | 0.892 9094 | 38539 | | 0.433 9874 | 69659 | | 0.188 2626 | 30221 | |
| 26.5 | 0.896 7633 | 37892 | +1134 | 0.427 0215 | 69964 | +2004 | 0.185 2405 | 30353 | +871 |
| 27.0 | 0.900 5525 | 37241 | | 0.420 0251 | 70265 | | 0.182 2052 | 30483 | |
| 27.5 | 0.904 2766 | 36588 | 1097 | 0.412 9986 | 70560 | 2021 | 0.179 1569 | 30611 | 879 |
| 28.0 | 0.907 9354 | 35932 | | 0.405 9426 | 70850 | | 0.176 0958 | 30737 | |
| 28.5 | 0.911 5286 | 35275 | 1059 | 0.398 8576 | 71135 | 2037 | 0.173 0221 | 30861 | 886 |
| 29.0 | 0.915 0561 | 34614 | | 0.391 7441 | 71413 | | 0.169 9360 | 30982 | |
| 29.5 | 0.918 5175 | 33952 | 1021 | 0.384 6028 | 71687 | 2053 | 0.166 8378 | 31101 | 893 |
| 30.0 | 0.921 9127 | 33287 | | 0.377 4341 | 71956 | | 0.163 7277 | 31217 | |
| 30.5 | 0.925 2414 | | 983 | 0.370 2385 | | 2068 | 0.160 6060 | | 899 |
| | — | 32620 | | + | 72219 | | + | 31331 | |
| 31.0 | 0.928 5034 | 31950 | | 0.363 0166 | 72477 | | 0.157 4729 | 31442 | |
| 31.5 | 0.931 6984 | 31278 | + 945 | 0.355 7689 | 72730 | +2082 | 0.154 3287 | 31552 | +906 |
| Sept. 1.0 | 0.934 8262 | 30604 | | 0.348 4959 | 72978 | | 0.151 1735 | 31659 | |
| 1.5 | 0.937 8866 | 29928 | 906 | 0.341 1981 | 73220 | 2096 | 0.148 0076 | 31764 | 912 |
| 2.0 | 0.940 8794 | 29249 | | 0.333 8761 | 73457 | | 0.144 8312 | 31867 | |
| 2.5 | 0.943 8043 | 28569 | 867 | 0.326 5304 | 73689 | 2109 | 0.141 6445 | 31968 | 918 |
| 3.0 | 0.946 6612 | 27887 | | 0.319 1615 | 73916 | | 0.138 4477 | 32065 | |
| 3.5 | 0.949 4499 | 27204 | 828 | 0.311 7699 | 74138 | 2122 | 0.135 2412 | 32161 | 923 |
| 4.0 | 0.952 1703 | | | 0.304 3561 | | | 0.132 0251 | | |

Mittl. Äquator und Mittl. Äquinoktium 1911.0

| 1911 | X | | Red. auf 1910.0 | Y | | Red. auf 1910.0 | Z | | Red. auf 1910.0 |
|---|---|---|---|---|---|---|---|---|---|
| | — | | | + | | | + | | |
| Sept. 4.0 | 0.952 1703 | 26518 | | 0.304 3561 | 74355 | | 0.132 0251 | 32255 | |
| 4.5 | 0.954 8221 | 25830 | +789 | 0.296 9206 | 74566 | +2134 | 0.128 7996 | 32346 | +928 |
| 5.0 | 0.957 4051 | 25140 | | 0.289 4640 | 74773 | | 0.125 5650 | 32435 | |
| 5.5 | 0.959 9191 | 24450 | 749 | 0.281 9867 | 74974 | 2145 | 0.122 3215 | 32522 | 933 |
| 6.0 | 0.962 3641 | 23757 | | 0.274 4893 | 75170 | | 0.119 0693 | 32607 | |
| 6.5 | 0.964 7398 | 23063 | 709 | 0.266 9723 | 75361 | 2155 | 0.115 8086 | 32689 | 938 |
| 7.0 | 0.967 0461 | 22367 | | 0.259 4362 | 75547 | | 0.112 5397 | 32770 | |
| 7.5 | 0.969 2828 | 21669 | 669 | 0.251 8815 | 75728 | 2165 | 0.109 2627 | 32848 | 942 |
| 8.0 | 0.971 4497 | 20970 | | 0.244 3087 | 75904 | | 0.105 9779 | 32924 | |
| 8.5 | 0.973 5467 | | 629 | 0.236 7183 | | 2175 | 0.102 6855 | | 946 |
| | — | 20269 | | + | 76074 | | + | 32998 | |
| 9.0 | 0.975 5736 | 19566 | | 0.229 1109 | 76240 | | 0.099 3857 | 33070 | |
| 9.5 | 0.977 5302 | 18863 | +588 | 0.221 4869 | 76401 | +2184 | 0.096 0787 | 33139 | +950 |
| 10.0 | 0.979 4165 | 18157 | | 0.213 8468 | 76557 | | 0.092 7648 | 33206 | |
| 10.5 | 0.981 2322 | 17449 | 548 | 0.206 1911 | 76707 | 2192 | 0.089 4442 | 33270 | 954 |
| 11.0 | 0.982 9771 | 16739 | | 0.198 5204 | 76853 | | 0.086 1172 | 33334 | |
| 11.5 | 0.984 6510 | 16029 | 507 | 0.190 8351 | 76993 | 2200 | 0.082 7838 | 33395 | 957 |
| 12.0 | 0.986 2539 | 15316 | | 0.183 1358 | 77128 | | 0.079 4443 | 33454 | |
| 12.5 | 0.987 7855 | 14602 | 466 | 0.175 4230 | 77258 | 2207 | 0.076 0989 | 33511 | 960 |
| 13.0 | 0.989 2457 | 13885 | | 0.167 6972 | 77383 | | 0.072 7478 | 33565 | |
| 13.5 | 0.990 6342 | | 425 | 0.159 9589 | | 2213 | 0.069 3913 | | 963 |
| | — | 13167 | | + | 77503 | | + | 33617 | |
| 14.0 | 0.991 9509 | 12447 | | 0.152 2086 | 77617 | | 0.066 0296 | 33667 | |
| 14.5 | 0.993 1956 | 11726 | +384 | 0.144 4469 | 77726 | +2219 | 0.062 6629 | 33715 | +965 |
| 15.0 | 0.994 3682 | 11004 | | 0.136 6743 | 77830 | | 0.059 2914 | 33760 | |
| 15.5 | 0.995 4686 | 10279 | 343 | 0.128 8913 | 77928 | 2224 | 0.055 9154 | 33802 | 967 |
| 16.0 | 0.996 4965 | 9553 | | 0.121 0985 | 78020 | | 0.052 5352 | 33842 | |
| 16.5 | 0.997 4518 | 8826 | 302 | 0.113 2965 | 78106 | 2228 | 0.049 1510 | 33880 | 969 |
| 17.0 | 0.998 3344 | 8097 | | 0.105 4859 | 78186 | | 0.045 7630 | 33915 | |
| 17.5 | 0.999 1441 | 7368 | 260 | 0.097 6673 | 78261 | 2232 | 0.042 3715 | 33948 | 971 |
| 18.0 | 0.999 8809 | 6636 | | 0.089 8412 | 78330 | | 0.038 9767 | 33979 | |
| 18.5 | 1.000 5445 | | 219 | 0.082 0082 | | 2235 | 0.035 5788 | | 972 |
| | — | 5903 | | + | 78393 | | + | 34007 | |
| 19.0 | 1.001 1348 | 5169 | | 0.074 1689 | 78450 | | 0.032 1781 | 34032 | |
| 19.5 | 1.001 6517 | 4434 | +177 | 0.066 3239 | 78501 | +2238 | 0.028 7749 | 34054 | +973 |
| 20.0 | 1.002 0951 | 3697 | | 0.058 4738 | 78545 | | 0.025 3695 | 34074 | |
| 20.5 | 1.002 4648 | 2961 | 135 | 0.050 6193 | 78584 | 2240 | 0.021 9621 | 34091 | 974 |
| 21.0 | 1.002 7609 | 2223 | | 0.042 7609 | 78616 | | 0.018 5530 | 34105 | |
| 21.5 | 1.002 9832 | 1485 | 93 | 0.034 8993 | 78643 | 2241 | 0.015 1425 | 34117 | 975 |
| 22.0 | 1.003 1317 | 747 | | 0.027 0350 | 78663 | | 0.011 7308 | 34126 | |
| 22.5 | 1.003 2064 | 8 | 51 | 0.019 1687 | 78676 | 2241 | 0.008 3182 | 34132 | 975 |
| 23.0 | 1.003 2072 | | | 0.011 3011 | | | 0.004 9050 | | |

Mittl. Äquator und Mittl. Äquinoktium 1911.0

| 1911 | X | | Red. auf 1910.0 | Y | | Red. auf 1910.0 | Z | | Red. auf 1910.0 |
|---|---|---|---|---|---|---|---|---|---|
| | — | | | + | | | + | | |
| Sept. 23.0 | 1.003 2072 | 731 | | 0.011 3011 | 78684 | | 0.004 9050 | 34136 | |
| 23.5 | 1.003 1341 | | + 9 | 0.003 4327 | | +2241 | 0.001 4914 | | +975 |
| | — | 1470 | | — | 78685 | | — | 34136 | |
| 24.0 | 1.002 9871 | 2210 | | 0.004 4358 | 78680 | | 0.001 9222 | 34134 | |
| 24.5 | 1.002 7661 | 2949 | — 32 | 0.012 3038 | 78669 | 2240 | 0.005 3356 | 34129 | 975 |
| 25.0 | 1.002 4712 | 3687 | | 0.020 1707 | 78652 | | 0.008 7485 | 34122 | |
| 25.5 | 1.002 1025 | 4426 | 74 | 0.028 0359 | 78629 | 2239 | 0.012 1607 | 34113 | 974 |
| 26.0 | 1.001 6599 | 5164 | | 0.035 8988 | 78601 | | 0.015 5720 | 34099 | |
| 26.5 | 1.001 1435 | 5903 | 116 | 0.043 7589 | 78566 | 2237 | 0.018 9819 | 34084 | 973 |
| 27.0 | 1.000 5532 | 6640 | | 0.051 6155 | 78525 | | 0.022 3903 | 34066 | |
| 27.5 | 0.999 8892 | | 158 | 0.059 4680 | | 2234 | 0.025 7969 | | 971 |
| | — | 7376 | | — | 78478 | | — | 34046 | |
| 28.0 | 0.999 1516 | 8112 | | 0.067 3158 | 78425 | | 0.029 2015 | 34023 | |
| 28.5 | 0.998 3404 | 8848 | —199 | 0.075 1583 | 78367 | +2231 | 0.032 6038 | 33997 | +970 |
| 29.0 | 0.997 4556 | 9584 | | 0.082 9950 | 78303 | | 0.036 0035 | 33969 | |
| 29.5 | 0.996 4972 | 10318 | 241 | 0.090 8253 | 78232 | 2227 | 0.039 4004 | 33938 | 968 |
| 30.0 | 0.995 4654 | 11050 | | 0.098 6485 | 78156 | | 0.042 7942 | 33904 | |
| 30.5 | 0.994 3604 | 11782 | 283 | 0.106 4641 | 78075 | 2222 | 0.046 1846 | 33868 | 966 |
| Okt. 1.0 | 0.993 1822 | 12513 | | 0.114 2716 | 77987 | | 0.049 5714 | 33830 | |
| 1.5 | 0.991 9309 | 13243 | 324 | 0.122 0703 | 77894 | 2217 | 0.052 9544 | 33790 | 963 |
| 2.0 | 0.990 6066 | 13974 | | 0.129 8597 | 77795 | | 0.056 3334 | 33747 | |
| 2.5 | 0.989 2092 | | 366 | 0.137 6392 | | 2211 | 0.059 7081 | | 961 |
| | — | 14704 | | — | 77690 | | — | 33701 | |
| 3.0 | 0.987 7388 | 15431 | | 0.145 4082 | 77581 | | 0.063 0782 | 33653 | |
| 3.5 | 0.986 1957 | 16156 | —407 | 0.153 1663 | 77465 | +2204 | 0.066 4435 | 33602 | +958 |
| 4.0 | 0.984 5801 | 16881 | | 0.160 9128 | 77344 | | 0.069 8037 | 33550 | |
| 4.5 | 0.982 8920 | 17605 | 448 | 0.168 6472 | 77218 | 2196 | 0.073 1587 | 33495 | 955 |
| 5.0 | 0.981 1315 | 18327 | | 0.176 3690 | 77086 | | 0.076 5082 | 33437 | |
| 5.5 | 0.979 2988 | 19048 | 489 | 0.184 0776 | 76950 | 2188 | 0.079 8519 | 33377 | 951 |
| 6.0 | 0.977 3940 | 19768 | | 0.191 7726 | 76807 | | 0.083 1896 | 33314 | |
| 6.5 | 0.975 4172 | 20487 | 530 | 0.199 4533 | 76659 | 2179 | 0.086 5210 | 33250 | 948 |
| 7.0 | 0.973 3685 | 21205 | | 0.207 1192 | 76505 | | 0.089 8460 | 33184 | |
| 7.5 | 0.971 2480 | | 570 | 0.214 7697 | | 2170 | 0.093 1644 | | 944 |
| | — | 21921 | | — | 76347 | | — | 33115 | |
| 8.0 | 0.969 0559 | 22637 | | 0.222 4044 | 76183 | | 0.096 4759 | 33044 | |
| 8.5 | 0.966 7922 | 23350 | —611 | 0.230 0227 | 76014 | +2160 | 0.099 7803 | 32970 | +940 |
| 9.0 | 0.964 4572 | 24063 | | 0.237 6241 | 75840 | | 0.103 0773 | 32895 | |
| 9.5 | 0.962 0509 | 24775 | 651 | 0.245 2081 | 75660 | 2150 | 0.106 3668 | 32817 | 935 |
| 10.0 | 0.959 5734 | 25485 | | 0.252 7741 | 75475 | | 0.109 6485 | 32736 | |
| 10.5 | 0.957 0249 | 26195 | 691 | 0.260 3216 | 75285 | 2139 | 0.112 9221 | 32654 | 930 |
| 11.0 | 0.954 4054 | 26903 | | 0.267 8501 | 75088 | | 0.116 1875 | 32569 | |
| 11.5 | 0.951 7151 | 27609 | 731 | 0.275 3589 | 74887 | 2127 | 0.119 4444 | 32483 | 925 |
| 12.0 | 0.948 9542 | | | 0.282 8476 | | | 0.122 6927 | | |

Mittl. Äquator und Mittl. Äquinoktium 1911.0

| 1911 | X | | Red. auf 1910.0 | Y | | Red. auf 1910.0 | Z | | Red. auf 1910.0 |
|---|---|---|---|---|---|---|---|---|---|
| | — | | | — | | | — | | |
| Okt. 12.0 | 0.948 9542 | 28314 | | 0.282 8476 | 74681 | | 0.122 6927 | 32394 | |
| 12.5 | 0.946 1228 | 29019 | −771 | 0.290 3157 | 74468 | +2114 | 0.125 9321 | 32302 | +920 |
| 13.0 | 0.943 2209 | 29721 | | 0.297 7625 | 74250 | | 0.129 1623 | 32207 | |
| 13.5 | 0.940 2488 | 30423 | 811 | 0.305 1875 | 74026 | 2101 | 0.132 3830 | 32110 | 914 |
| 14.0 | 0.937 2065 | 31123 | | 0.312 5901 | 73797 | | 0.135 5940 | 32011 | |
| 14.5 | 0.934 0942 | 31822 | 850 | 0.319 9698 | 73562 | 2087 | 0.138 7951 | 31910 | 908 |
| 15.0 | 0.930 9120 | 32518 | | 0.327 3260 | 73321 | | 0.141 9861 | 31806 | |
| 15.5 | 0.927 6602 | 33214 | 889 | 0.334 6581 | 73075 | 2073 | 0.145 1667 | 31700 | 902 |
| 16.0 | 0.924 3388 | 33908 | | 0.341 9656 | 72822 | | 0.148 3367 | 31591 | |
| 16.5 | 0.920 9480 | | 928 | 0.349 2478 | | 2058 | 0.151 4958 | | 895 |
| | — | 34600 | | — | 72563 | | — | 31478 | |
| 17.0 | 0.917 4880 | 35289 | | 0.356 5041 | 72299 | | 0.154 6436 | 31363 | |
| 17.5 | 0.913 9591 | 35977 | −966 | 0.363 7340 | 72028 | +2042 | 0.157 7799 | 31246 | +888 |
| 18.0 | 0.910 3614 | 36662 | | 0.370 9368 | 71752 | | 0.160 9045 | 31127 | |
| 18.5 | 0.906 6952 | 37345 | 1004 | 0.378 1120 | 71470 | 2026 | 0.164 0172 | 31006 | 881 |
| 19.0 | 0.902 9607 | 38026 | | 0.385 2590 | 71182 | | 0.167 1178 | 30881 | |
| 19.5 | 0.899 1581 | 38703 | 1042 | 0.392 3772 | 70887 | 2009 | 0.170 2059 | 30753 | 874 |
| 20.0 | 0.895 2878 | 39379 | | 0.399 4659 | 70587 | | 0.173 2812 | 30623 | |
| 20.5 | 0.891 3499 | 40051 | 1080 | 0.406 5246 | 70282 | 1992 | 0.176 3435 | 30491 | 866 |
| 21.0 | 0.887 3448 | 40721 | | 0.413 5528 | 69971 | | 0.179 3926 | 30356 | |
| 21.5 | 0.883 2727 | | 1117 | 0.420 5499 | | 1974 | 0.182 4282 | | 858 |
| | — | 41388 | | — | 69654 | | — | 30218 | |
| 22.0 | 0.879 1339 | 42052 | | 0.427 5153 | 69331 | | 0.185 4500 | 30079 | |
| 22.5 | 0.874 9287 | 42713 | −1154 | 0.434 4484 | 69002 | +1955 | 0.188 4579 | 29936 | +850 |
| 23.0 | 0.870 6574 | 43370 | | 0.441 3486 | 68667 | | 0.191 4515 | 29791 | |
| 23.5 | 0.866 3204 | 44023 | 1190 | 0.448 2153 | 68327 | 1936 | 0.194 4306 | 29643 | 842 |
| 24.0 | 0.861 9181 | 44673 | | 0.455 0480 | 67982 | | 0.197 3949 | 29493 | |
| 24.5 | 0.857 4508 | 45320 | 1226 | 0.461 8462 | 67632 | 1916 | 0.200 3442 | 29341 | 833 |
| 25.0 | 0.852 9188 | 45964 | | 0.468 6094 | 67276 | | 0.203 2783 | 29186 | |
| 25.5 | 0.848 3224 | 46604 | 1262 | 0.475 3370 | 66915 | 1896 | 0.206 1969 | 29029 | 824 |
| 26.0 | 0.843 6620 | 47240 | | 0.482 0285 | 66549 | | 0.209 0998 | 28870 | |
| 26.5 | 0.838 9380 | | 1298 | 0.488 6834 | | 1875 | 0.211 9868 | | 815 |
| | — | 47873 | | — | 66177 | | — | 28709 | |
| 27.0 | 0.834 1507 | 48502 | | 0.495 3011 | 65800 | | 0.214 8577 | 28545 | |
| 27.5 | 0.829 3005 | 49126 | −1333 | 0.501 8811 | 65417 | +1853 | 0.217 7122 | 28378 | +806 |
| 28.0 | 0.824 3879 | 49748 | | 0.508 4228 | 65031 | | 0.220 5500 | 28210 | |
| 28.5 | 0.819 4131 | 50366 | 1368 | 0.514 9259 | 64639 | 1831 | 0.223 3710 | 28040 | 796 |
| 29.0 | 0.814 3765 | 50979 | | 0.521 3898 | 64243 | | 0.226 1750 | 27868 | |
| 29.5 | 0.809 2786 | 51589 | 1402 | 0.527 8141 | 63842 | 1808 | 0.228 9618 | 27693 | 786 |
| 30.0 | 0.804 1197 | 52194 | | 0.534 1983 | 63436 | | 0.231 7311 | 27516 | |
| 30.5 | 0.798 9003 | 52796 | 1436 | 0.540 5419 | 63024 | 1785 | 0.234 4827 | 27338 | 776 |
| 31.0 | 0.793 6207 | | | 0.546 8443 | | | 0.237 2165 | | |

Mittl. Äquator und Mittl. Äquinoktium 1911.0

| 1911 | X | | Red. auf 1910.0 | Y | | Red. auf 1910.0 | Z | | Red. auf 1910.0 |
|---|---|---|---|---|---|---|---|---|---|
| | — | | | — | | | — | | |
| Okt. 31.0 | 0.793 6207 | 53393 | | 0.546 8443 | 62608 | | 0.237 2165 | 27158 | |
| 31.5 | 0.788 2814 | 53986 | −1469 | 0.553 1051 | 62187 | +1761 | 0.239 9323 | 26975 | +766 |
| Nov. 1.0 | 0.782 8828 | 54575 | | 0.559 3238 | 61762 | | 0.242 6298 | 26790 | |
| 1.5 | 0.777 4253 | 55161 | 1502 | 0.565 5000 | 61332 | 1737 | 0.245 3088 | 26603 | 755 |
| 2.0 | 0.771 9092 | 55742 | | 0.571 6332 | 60898 | | 0.247 9691 | 26415 | |
| 2.5 | 0.766 3350 | 56319 | 1534 | 0.577 7230 | 60460 | 1712 | 0.250 6106 | 26224 | 744 |
| 3.0 | 0.760 7031 | 56891 | | 0.583 7690 | 60017 | | 0.253 2330 | 26031 | |
| 3.5 | 0.755 0140 | 57460 | 1566 | 0.589 7707 | 59570 | 1687 | 0.255 8361 | 25837 | 733 |
| 4.0 | 0.749 2680 | 58025 | | 0.595 7277 | 59119 | | 0.258 4198 | 25641 | |
| 4.5 | 0.743 4655 | | 1598 | 0.601 6396 | | 1661 | 0.260 9839 | | 722 |
| | — | 58586 | | — | 58664 | | — | 25444 | |
| 5.0 | 0.737 6069 | 59142 | | 0.607 5060 | 58204 | | 0.263 5283 | 25245 | |
| 5.5 | 0.731 6927 | 59693 | −1629 | 0.613 3264 | 57740 | +1635 | 0.266 0528 | 25044 | +711 |
| 6.0 | 0.725 7234 | 60241 | | 0.619 1004 | 57272 | | 0.268 5572 | 24841 | |
| 6.5 | 0.719 6993 | 60785 | 1659 | 0.624 8276 | 56800 | 1608 | 0.271 0413 | 24636 | 699 |
| 7.0 | 0.713 6208 | 61326 | | 0.630 5076 | 56324 | | 0.273 5049 | 24429 | |
| 7.5 | 0.707 4882 | 61862 | 1689 | 0.636 1400 | 55844 | 1581 | 0.275 9478 | 24221 | 687 |
| 8.0 | 0.701 3020 | 62395 | | 0.641 7244 | 55360 | | 0.278 3699 | 24011 | |
| 8.5 | 0.695 0625 | 62923 | 1719 | 0.647 2604 | 54871 | 1553 | 0.280 7710 | 23799 | 675 |
| 9.0 | 0.688 7702 | 63448 | | 0.652 7475 | 54377 | | 0.283 1509 | 23586 | |
| 9.5 | 0.682 4254 | | 1748 | 0.658 1852 | | 1525 | 0.285 5095 | | 663 |
| | — | 63967 | | — | 53879 | | — | 23371 | |
| 10.0 | 0.676 0287 | 64483 | | 0.663 5731 | 53377 | | 0.287 8466 | 23153 | |
| 10.5 | 0.669 5804 | 64995 | −1777 | 0.668 9108 | 52871 | +1496 | 0.290 1619 | 22934 | +650 |
| 11.0 | 0.663 0809 | 65503 | | 0.674 1979 | 52360 | | 0.292 4553 | 22713 | |
| 11.5 | 0.656 5306 | 66006 | 1805 | 0.679 4339 | 51845 | 1467 | 0.294 7266 | 22490 | 637 |
| 12.0 | 0.649 9300 | 66505 | | 0.684 6184 | 51325 | | 0.296 9756 | 22265 | |
| 12.5 | 0.643 2795 | 66999 | 1832 | 0.689 7509 | 50801 | 1437 | 0.299 2021 | 22038 | 625 |
| 13.0 | 0.636 5796 | 67488 | | 0.694 8310 | 50273 | | 0.301 4059 | 21809 | |
| 13.5 | 0.629 8308 | 67973 | 1859 | 0.699 8583 | 49741 | 1407 | 0.303 5868 | 21578 | 612 |
| 14.0 | 0.623 0335 | 68454 | | 0.704 8324 | 49204 | | 0.305 7446 | 21346 | |
| 14.5 | 0.616 1881 | | 1885 | 0.709 7528 | | 1376 | 0.307 8792 | | 599 |
| | — | 68929 | | — | 48662 | | — | 21112 | |
| 15.0 | 0.609 2952 | 69399 | | 0.714 6190 | 48116 | | 0.309 9904 | 20876 | |
| 15.5 | 0.602 3553 | 69864 | −1911 | 0.719 4306 | 47566 | +1345 | 0.312 0780 | 20637 | +586 |
| 16.0 | 0.595 3689 | 70324 | | 0.724 1872 | 47011 | | 0.314 1417 | 20396 | |
| 16.5 | 0.588 3365 | 70779 | 1936 | 0.728 8883 | 46452 | 1314 | 0.316 1813 | 20154 | 572 |
| 17.0 | 0.581 2586 | 71227 | | 0.733 5335 | 45890 | | 0.318 1967 | 19910 | |
| 17.5 | 0.574 1359 | 71671 | 1960 | 0.738 1225 | 45324 | 1282 | 0.320 1877 | 19664 | 558 |
| 18.0 | 0.566 9688 | 72109 | | 0.742 6549 | 44753 | | 0.322 1541 | 19416 | |
| 18.5 | 0.559 7579 | 72540 | 1984 | 0.747 1302 | 44178 | 1250 | 0.324 0957 | 19167 | 544 |
| 19.0 | 0.552 5039 | | | 0.751 5480 | | | 0.326 0124 | | |

Mittl. Äquator und Mittl. Äquinoktium 1911.0

| 1911 | X | | Red. auf 1910.0 | Y | | Red. auf 1910.0 | Z | | Red. auf 1910.0 |
|---|---|---|---|---|---|---|---|---|---|
| | — | | | — | | | — | | |
| Nov. 19.0 | 0.552 5039 | 72967 | | 0.751 5480 | 43598 | | 0.326 0124 | 18916 | |
| 19.5 | 0.545 2072 | 73388 | −2007 | 0.755 9078 | 43016 | +1218 | 0.327 9040 | 18663 | +530 |
| 20.0 | 0.537 8684 | 73803 | | 0.760 2094 | 42430 | | 0.329 7703 | 18409 | |
| 20.5 | 0.530 4881 | 74213 | 2030 | 0.764 4524 | 41841 | 1185 | 0.331 6112 | 18154 | 516 |
| 21.0 | 0.523 0668 | 74616 | | 0.768 6365 | 41248 | | 0.333 4266 | 17896 | |
| 21.5 | 0.515 6052 | 75013 | 2052 | 0.772 7613 | 40651 | 1152 | 0.335 2162 | 17636 | 502 |
| 22.0 | 0.508 1039 | 75405 | | 0.776 8264 | 40051 | | 0.336 9798 | 17376 | |
| 22.5 | 0.500 5634 | 75790 | 2074 | 0.780 8315 | 39447 | 1118 | 0.338 7174 | 17114 | 487 |
| 23.0 | 0.492 9844 | 76169 | | 0.784 7762 | 38841 | | 0.340 4288 | 16850 | |
| 23.5 | 0.485 3675 | | 2095 | 0.788 6603 | | 1084 | 0.342 1138 | | 472 |
| | — | 76541 | | — | 38231 | | — | 16586 | |
| 24.0 | 0.477 7134 | 76908 | | 0.792 4834 | 37619 | | 0.343 7724 | 16320 | |
| 24.5 | 0.470 0226 | 77269 | −2115 | 0.796 2453 | 37004 | +1050 | 0.345 4044 | 16052 | +457 |
| 25.0 | 0.462 2957 | 77623 | | 0.799 9457 | 36385 | | 0.347 0096 | 15783 | |
| 25.5 | 0.454 5334 | 77971 | 2134 | 0.803 5842 | 35763 | 1016 | 0.348 5879 | 15514 | 442 |
| 26.0 | 0.446 7363 | 78312 | | 0.807 1605 | 35139 | | 0.350 1393 | 15242 | |
| 26.5 | 0.438 9051 | 78648 | 2153 | 0.810 6744 | 34512 | 981 | 0.351 6635 | 14970 | 427 |
| 27.0 | 0.431 0403 | 78977 | | 0.814 1256 | 33882 | | 0.353 1605 | 14697 | |
| 27.5 | 0.423 1426 | 79301 | 2171 | 0.817 5138 | 33250 | 946 | 0.354 6302 | 14422 | 412 |
| 28.0 | 0.415 2125 | 79618 | | 0.820 8388 | 32616 | | 0.356 0724 | 14147 | |
| 28.5 | 0.407 2507 | | 2189 | 0.824 1004 | | 910 | 0.357 4871 | | 396 |
| | — | 79929 | | — | 31979 | | — | 13870 | |
| 29.0 | 0.399 2578 | 80233 | | 0.827 2983 | 31341 | | 0.358 8741 | 13593 | |
| 29.5 | 0.391 2345 | 80530 | −2206 | 0.830 4324 | 30700 | + 874 | 0.360 2334 | 13315 | +381 |
| 30.0 | 0.383 1815 | 80821 | | 0.833 5024 | 30056 | | 0.361 5649 | 13035 | |
| 30.5 | 0.375 0994 | 81107 | 2222 | 0.836 5080 | 29411 | 838 | 0.362 8684 | 12755 | 365 |
| Dez. 1.0 | 0.366 9887 | 81386 | | 0.839 4491 | 28763 | | 0.364 1439 | 12474 | |
| 1.5 | 0.358 8501 | 81660 | 2237 | 0.842 3254 | 28113 | 802 | 0.365 3913 | 12192 | 349 |
| 2.0 | 0.350 6841 | 81927 | | 0.845 1367 | 27462 | | 0.366 6105 | 11909 | |
| 2.5 | 0.342 4914 | 82187 | 2252 | 0.847 8829 | 26808 | 765 | 0.367 8014 | 11625 | 333 |
| 3.0 | 0.334 2727 | 82442 | | 0.850 5637 | 26153 | | 0.368 9639 | 11341 | |
| 3.5 | 0.326 0285 | | 2266 | 0.853 1790 | | 728 | 0.370 0980 | | 317 |
| | — | 82690 | | — | 25497 | | — | 11056 | |
| 4.0 | 0.317 7595 | 82933 | | 0.855 7287 | 24838 | | 0.371 2036 | 10771 | |
| 4.5 | 0.309 4662 | 83170 | −2279 | 0.858 2125 | 24178 | + 691 | 0.372 2807 | 10485 | +301 |
| 5.0 | 0.301 1492 | 83401 | | 0.860 6303 | 23515 | | 0.373 3292 | 10198 | |
| 5.5 | 0.292 8091 | 83626 | 2292 | 0.862 9818 | 22852 | 654 | 0.374 3490 | 9911 | 285 |
| 6.0 | 0.284 4465 | 83845 | | 0.865 2670 | 22187 | | 0.375 3401 | 9622 | |
| 6.5 | 0.276 0620 | 84058 | 2304 | 0.867 4857 | 21519 | 617 | 0.376 3023 | 9333 | 268 |
| 7.0 | 0.267 6562 | 84266 | | 0.869 6376 | 20850 | | 0.377 2356 | 9043 | |
| 7.5 | 0.259 2296 | 84467 | 2315 | 0.871 7226 | 20179 | 580 | 0.378 1399 | 8753 | 252 |
| 8.0 | 0.250 7829 | | | 0.873 7405 | | | 0.379 0152 | | |

## Mittl. Äquator und Mittl. Äquinoktium 1911.0

| 1911 | X | | Red. auf 1910.0 | Y | | Red. auf 1910.0 | Z | | Red. auf 1910.0 |
|---|---|---|---|---|---|---|---|---|---|
| | — | | | — | | | — | | |
| Dez. 8.0 | 0.250 7829 | | | 0.873 7405 | | | 0.379 0152 | | |
| | | 84663 | | | 19507 | | | 8462 | |
| 8.5 | 0.242 3166 | | −2326 | 0.875 6912 | | +542 | 0.379 8614 | | +235 |
| | | 84852 | | | 18832 | | | 8169 | |
| 9.0 | 0.233 8314 | | | 0.877 5744 | | | 0.380 6783 | | |
| | | 85036 | | | 18155 | | | 7876 | |
| 9.5 | 0.225 3278 | | 2336 | 0.879 3899 | | 504 | 0.381 4659 | | 219 |
| | | 85213 | | | 17477 | | | 7582 | |
| 10.0 | 0.216 8065 | | | 0.881 1376 | | | 0.382 2241 | | |
| | | 85384 | | | 16797 | | | 7288 | |
| 10.5 | 0.208 2681 | | 2345 | 0.882 8173 | | 466 | 0.382 9529 | | 202 |
| | | 85549 | | | 16116 | | | 6992 | |
| 11.0 | 0.199 7132 | | | 0.884 4289 | | | 0.383 6521 | | |
| | | 85708 | | | 15431 | | | 6696 | |
| 11.5 | 0.191 1424 | | 2353 | 0.885 9720 | | 428 | 0.384 3217 | | 186 |
| | | 85861 | | | 14745 | | | 6398 | |
| 12.0 | 0.182 5563 | | | 0.887 4465 | | | 0.384 9615 | | |
| | | 86007 | | | 14058 | | | 6100 | |
| 12.5 | 0.173 9556 | | 2361 | 0.888 8523 | | 389 | 0.385 5715 | | 169 |
| | — | 86145 | | — | 13370 | | — | 5802 | |
| 13.0 | 0.165 3411 | | | 0.890 1893 | | | 0.386 1517 | | |
| | | 86278 | | | 12679 | | | 5503 | |
| 13.5 | 0.156 7133 | | −2368 | 0.891 4572 | | +351 | 0.386 7020 | | +152 |
| | | 86404 | | | 11987 | | | 5203 | |
| 14.0 | 0.148 0729 | | | 0.892 6559 | | | 0.387 2223 | | |
| | | 86522 | | | 11293 | | | 4903 | |
| 14.5 | 0.139 4207 | | 2374 | 0.893 7852 | | 312 | 0.387 7126 | | 135 |
| | | 86634 | | | 10598 | | | 4601 | |
| 15.0 | 0.130 7573 | | | 0.894 8450 | | | 0.388 1727 | | |
| | | 86739 | | | 9903 | | | 4299 | |
| 15.5 | 0.122 0834 | | 2379 | 0.895 8353 | | 273 | 0.388 6026 | | 118 |
| | | 86837 | | | 9206 | | | 3997 | |
| 16.0 | 0.113 3997 | | | 0.896 7559 | | | 0.389 0023 | | |
| | | 86928 | | | 8508 | | | 3694 | |
| 16.5 | 0.104 7069 | | 2384 | 0.897 6067 | | 234 | 0.389 3717 | | 102 |
| | | 87013 | | | 7808 | | | 3391 | |
| 17.0 | 0.096 0056 | | | 0.898 3875 | | | 0.389 7108 | | |
| | | 87090 | | | 7107 | | | 3086 | |
| 17.5 | 0.087 2966 | | 2388 | 0.899 0982 | | 195 | 0.390 0194 | | 85 |
| | — | 87160 | | — | 6407 | | — | 2782 | |
| 18.0 | 0.078 5806 | | | 0.899 7389 | | | 0.390 2976 | | |
| | | 87223 | | | 5705 | | | 2477 | |
| 18.5 | 0.069 8583 | | −2391 | 0.900 3094 | | +156 | 0.390 5453 | | +68 |
| | | 87278 | | | 5002 | | | 2173 | |
| 19.0 | 0.061 1305 | | | 0.900 8096 | | | 0.390 7626 | | |
| | | 87326 | | | 4299 | | | 1868 | |
| 19.5 | 0.052 3979 | | 2393 | 0.901 2395 | | 117 | 0.390 9494 | | 51 |
| | | 87368 | | | 3595 | | | 1562 | |
| 20.0 | 0.043 6611 | | | 0.901 5990 | | | 0.391 1056 | | |
| | | 87403 | | | 2891 | | | 1256 | |
| 20.5 | 0.034 9208 | | 2395 | 0.901 8881 | | 78 | 0.391 2312 | | 34 |
| | | 87430 | | | 2187 | | | 950 | |
| 21.0 | 0.026 1778 | | | 0.902 1068 | | | 0.391 3262 | | |
| | | 87449 | | | 1483 | | | 644 | |
| 21.5 | 0.017 4329 | | 2396 | 0.902 2551 | | +39 | 0.391 3906 | | +17 |
| | | 87462 | | | 780 | | | 339 | |
| 22.0 | 0.008 6867 | | | 0.902 3331 | | | 0.391 4245 | | |
| | + | 87467 | | — | 75 | | — | 33 | |
| 22.5 | 0.000 0600 | | 2397 | 0.902 3406 | | 0 | 0.391 4278 | | 0 |
| | + | 87466 | | — | 629 | | — | 273 | |
| 23.0 | 0.008 8066 | | | 0.902 2777 | | | 0.391 4005 | | |
| | | 87457 | | | 1334 | | | 579 | |
| 23.5 | 0.017 5523 | | −2396 | 0.902 1443 | | −39 | 0.391 3426 | | −17 |
| | | 87441 | | | 2038 | | | 885 | |
| 24.0 | 0.026 2964 | | | 0.901 9405 | | | 0.391 2541 | | |
| | | 87418 | | | 2742 | | | 1191 | |
| 24.5 | 0.035 0382 | | 2395 | 0.901 6663 | | 78 | 0.391 1350 | | 34 |
| | | 87388 | | | 3446 | | | 1496 | |
| 25.0 | 0.043 7770 | | | 0.901 3217 | | | 0.390 9854 | | |
| | | 87351 | | | 4149 | | | 1801 | |
| 25.5 | 0.052 5121 | | 2393 | 0.900 9068 | | 117 | 0.390 8053 | | 51 |
| | | 87307 | | | 4851 | | | 2106 | |
| 26.0 | 0.061 2428 | | | 0.900 4217 | | | 0.390 5947 | | |
| | | 87256 | | | 5553 | | | 2411 | |
| 26.5 | 0.069 9684 | | 2390 | 0.899 8664 | | 156 | 0.390 3536 | | 68 |
| | | 87197 | | | 6253 | | | 2716 | |
| 27.0 | 0.078 6881 | | | 0.899 2411 | | | 0.390 0820 | | |

Mittl. Äquator und Mittl. Äquinoktium 1911.0

| 1911 | X | | Red. auf 1910.0 | Y | | Red. auf 1910.0 | Z | | Red. auf 1910.0 |
|---|---|---|---|---|---|---|---|---|---|
| | + | | | — | | | — | | |
| Dez. 27.0 | 0.078 6881 | | | 0.899 2411 | | | 0.390 0820 | | |
| | | 87132 | | | 6953 | | | 3019 | |
| 27.5 | 0.087 4013 | | −2386 | 0.898 5458 | | −195 | 0.389 7801 | | −85 |
| | | 87060 | | | 7654 | | | 3323 | |
| 28.0 | 0.096 1073 | | | 0.897 7804 | | | 0.389 4478 | | |
| | | 86982 | | | 8352 | | | 3626 | |
| 28.5 | 0.104 8055 | | 2382 | 0.896 9452 | | 234 | 0.389 0852 | | 102 |
| | | 86896 | | | 9049 | | | 3928 | |
| 29.0 | 0.113 4951 | | | 0.896 0403 | | | 0.388 6924 | | |
| | | 86803 | | | 9745 | | | 4231 | |
| 29.5 | 0.122 1754 | | 2377 | 0.895 0658 | | 273 | 0.388 2693 | | 119 |
| | | 86705 | | | 10440 | | | 4532 | |
| 30.0 | 0.130 8459 | | | 0.894 0218 | | | 0.387 8161 | | |
| | | 86599 | | | 11134 | | | 4833 | |
| 30.5 | 0.139 5058 | | 2371 | 0.892 9084 | | 311 | 0.387 3328 | | 135 |
| | | 86487 | | | 11826 | | | 5134 | |
| 31.0 | 0.148 1545 | | | 0.891 7258 | | | 0.386 8194 | | |
| | | 86368 | | | 12518 | | | 5433 | |
| 31.5 | 0.156 7913 | | 2364 | 0.890 4740 | | 350 | 0.386 2761 | | 152 |
| | + | 86244 | | — | 13207 | | — | 5732 | |
| 32.0 | 0.165 4157 | | | 0.889 1533 | | | 0.385 7029 | | |
| | | 86112 | | | 13896 | | | 6030 | |
| 32.5 | 0.174 0269 | | −2357 | 0.887 7637 | | −388 | 0.385 0999 | | −169 |
| | | 85975 | | | 14584 | | | 6328 | |
| 33.0 | 0.182 6244 | | | 0.886 3053 | | | 0.384 4671 | | |
| | | 85831 | | | 15269 | | | 6625 | |
| 33.5 | 0.191 2075 | | 2349 | 0.884 7784 | | 427 | 0.383 8046 | | 185 |
| | | 85682 | | | 15954 | | | 6922 | |
| 34.0 | 0.199 7757 | | | 0.883 1830 | | | 0.383 1124 | | |
| | | 85526 | | | 16638 | | | 7219 | |
| 34.5 | 0.208 3283 | | 2341 | 0.881 5192 | | 465 | 0.382 3905 | | 202 |
| | | 85364 | | | 17320 | | | 7515 | |
| 35.0 | 0.216 8647 | | | 0.879 7872 | | | 0.381 6390 | | |
| | | 85196 | | | 18000 | | | 7810 | |
| 35.5 | 0.225 3843 | | 2332 | 0.877 9872 | | 503 | 0.380 8580 | | 218 |
| | | 85022 | | | 18679 | | | 8104 | |
| 36.0 | 0.233 8865 | | | 0.876 1193 | | | 0.380 0476 | | |
| | | 84843 | | | 19357 | | | 8397 | |
| 36.5 | 0.242 3708 | | 2322 | 0.874 1836 | | 541 | 0.379 2079 | | 235 |

## Mittlerer Mittag und Mitternacht.

| Datum | Wahre AR. | Diff. | Wahre Dekl. | Diff. | Log. sin. A. H. Par. | Diff. | Halbm. |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ° ′ ″ | | | ′ ″ |
| Jan. 1.0 | 19 23 42.40 | 27 12.61 | −26 33 10.5 | +0 46 23.6 | 8.20342 | +149 | 14 57.9 |
| 1.5 | 19 50 55.01 | 26 57.74 | 25 46 46.9 | 1 5 37.3 | 8.20491 | 159 | 15 1.0 |
| 2.0 | 20 17 52.75 | 26 36.54 | 24 41 9.6 | 1 23 59.9 | 8.20650 | 168 | 15 4.3 |
| 2.5 | 20 44 29.29 | 26 11.08 | 23 17 9.7 | 1 41 15.8 | 8.20818 | 176 | 15 7.8 |
| 3.0 | 21 10 40.37 | 25 43.43 | 21 35 53.9 | 1 57 12.0 | 8.20994 | 186 | 15 11.5 |
| 3.5 | 21 36 23.80 | 25 15.74 | 19 38 41.9 | 2 11 39.7 | 8.21180 | 194 | 15 15.4 |
| 4.0 | 22 1 39.54 | 24 49.98 | 17 27 2.2 | 2 24 33.6 | 8.21374 | 203 | 15 19.5 |
| 4.5 | 22 26 29.52 | 24 27.86 | 15 2 28.6 | 2 35 49.7 | 8.21577 | 212 | 15 23.8 |
| 5.0 | 22 50 57.38 | 24 10.86 | 12 26 38.9 | 2 45 26.3 | 8.21789 | 219 | 15 28.4 |
| 5.5 | 23 15 8.24 | 24 0.20 | 9 41 12.6 | +2 53 21.2 | 8.22008 | +228 | 15 33.1 |
| 6.0 | 23 39 8.44 | 23 56.85 | −6 47 51.4 | 2 59 31.8 | 8.22236 | 233 | 15 38.0 |
| 6.5 | 0 3 5.29 | 24 1.58 | 3 48 19.6 | 3 3 54.6 | 8.22469 | 237 | 15 43.0 |
| 7.0 | 0 27 6.87 | 24 15.06 | −0 44 25.0 | 3 6 23.1 | 8.22706 | 241 | 15 48.1 |
| 7.5 | 0 51 21.93 | 24 37.70 | +2 21 58.1 | 3 6 48.3 | 8.22947 | 239 | 15 53.4 |
| 8.0 | 1 15 59.63 | 25 9.74 | 5 28 46.4 | 3 4 59.8 | 8.23186 | 236 | 15 58.7 |
| 8.5 | 1 41 9.37 | 25 51.06 | 8 33 46.2 | 3 0 43.6 | 8.23422 | 228 | 16 3.9 |
| 9.0 | 2 7 0.43 | 26 41.17 | 11 34 29.8 | 2 53 43.4 | 8.23650 | 214 | 16 9.0 |
| 9.5 | 2 33 41.60 | 27 38.96 | 14 28 13.2 | 2 43 43.7 | 8.23864 | 196 | 16 13.8 |
| 10.0 | 3 1 20.56 | 28 42.49 | 17 11 56.9 | 2 30 29.0 | 8.24060 | 173 | 16 18.2 |
| 10.5 | 3 30 3.05 | 29 48.75 | 19 42 25.9 | +2 13 49.5 | 8.24233 | +143 | 16 22.1 |
| 11.0 | 3 59 51.80 | 30 53.75 | +21 56 15.4 | 1 53 43.6 | 8.24376 | 108 | 16 25.3 |
| 11.5 | 4 30 45.55 | 31 52.50 | 23 49 59.0 | 1 30 22.0 | 8.24484 | 71 | 16 27.8 |
| 12.0 | 5 2 38.05 | 32 39.55 | 25 20 21.0 | 1 4 11.5 | 8.24555 | + 26 | 16 29.4 |
| 12.5 | 5 35 17.60 | 33 9.82 | 26 24 32.5 | 0 35 55.9 | 8.24581 | − 19 | 16 30.0 |
| 13.0 | 6 8 27.42 | 33 19.57 | 27 0 28.4 | +0 6 33.9 | 8.24562 | 66 | 16 29.6 |
| 13.5 | 6 41 46.99 | 33 7.31 | 27 7 2.3 | −0 22 47.5 | 8.24496 | 114 | 16 28.1 |
| 14.0 | 7 14 54.30 | 32 34.05 | 26 44 14.8 | 0 51 0.4 | 8.24382 | 158 | 16 25.5 |
| 14.5 | 7 47 28.35 | 31 43.18 | 25 53 14.4 | 1 17 6.5 | 8.24224 | 202 | 16 21.9 |
| 15.0 | 8 19 11.53 | 30 39.56 | 24 36 7.9 | 1 40 21.0 | 8.24022 | 238 | 16 17.3 |
| 15.5 | 8 49 51.09 | 29 28.58 | 22 55 46.9 | −2 0 17.3 | 8.23784 | −272 | 16 12.0 |
| 16.0 | 9 19 19.67 | 28 15.27 | +20 55 29.6 | 2 16 46.0 | 8.23512 | 297 | 16 5.9 |
| 16.5 | 9 47 34.94 | 27 3.78 | 18 38 43.6 | 2 29 50.8 | 8.23215 | 317 | 15 59.3 |
| 17.0 | 10 14 38.72 | 25 57.16 | 16 8 52.8 | 2 39 44.5 | 8.22898 | 329 | 15 52.4 |
| 17.5 | 10 40 35.88 | 24 57.51 | 13 29 8.3 | 2 46 45.4 | 8.22569 | 333 | 15 45.2 |
| 18.0 | 11 5 33.39 | 24 6.04 | 10 42 22.9 | 2 51 13.7 | 8.22236 | 332 | 15 38.0 |
| 18.5 | 11 29 39.43 | 23 23.34 | 7 51 9.2 | 2 53 29.8 | 8.21904 | 323 | 15 30.8 |
| 19.0 | 11 53 2.77 | 22 49.61 | 4 57 39.4 | 2 53 51.4 | 8.21581 | 308 | 15 23.9 |
| 19.5 | 12 15 52.38 | 22 24.76 | + 2 3 48.0 | 2 52 33.6 | 8.21273 | 290 | 15 17.4 |
| 20.0 | 12 38 17.14 | 22 8.57 | − 0 48 45.6 | 2 49 49.2 | 8.20983 | 266 | 15 11.3 |
| 20.5 | 13 0 25.71 | | 3 38 34.8 | | 8.20717 | | 15 5.7 |

Jan. 7 $19^h\ 14^m.0$ Erstes Viertel. Jan. 14 $11^h\ 19^m.6$ Vollmond.

## Im Meridian von Berlin.

| Datum und Kulmination | Mittlere Zeit | AR. | Halbe Durchg.-D. Sternzeit | Bew. in $1^h$ Länge | Dekl. | Bew. in $1^h$ Länge | Vergl.-Sterne AR. | Vergl.-Sterne Dekl. | Gr. |
|---|---|---|---|---|---|---|---|---|---|
| | h m | h m s | s | s | ° ′ | ″ | h m | ° ′ | |
| Jan. 1 *O* | 0 45.4 | 19 25 25 | −69.65 | 141.40 | −26 30.8 | + 3.3 | | | |
| *U* | 13 11.5 | 19 53 36 | −69.39 | 140.32 | −25 41.1 | + 5.0 | | | |
| 2 *O* | 1 37.3 | 20 21 30 | −68.96 | 138.56 | −24 30.8 | + 6.7 | | | |
| *U* | 14 2.8 | 20 48 59 | −68.40 | 136.31 | −23 1.1 | + 8.3 | | | |
| 3 *O* | 2 27.8 | 21 15 59 | −67.78 | 133.79 | −21 13.1 | + 9.7 | | | |
| *U* | 14 52.2 | 21 42 29 | −67.13 | 131.21 | −19 8.5 | +11.0 | | | |
| 4 *O* | 3 16.2 | 22 8 28 | −66.52 | 128.76 | −16 48.9 | +12.2 | | | |
| *U* | 15 39.7 | 22 33 59 | −65.98 | 126.63 | −14 16.1 | +13.2 | | | |
| 5 *O* | 4 2.8 | 22 59 8 | −65.57 | 124.97 | −11 31.9 | +14.1 | 22 25.5 | −15 2 | 6.1 |
| *U* | 16 25.6 | 23 24 0 | −65.31 | 123.88 | − 8 38.1 | +14.8 | 22 43.0 | −14 32 | 5.6 |
| 6 *O* | 4 48.3 | 23 48 44 | −65.23 | 123.47 | − 5 36.6 | +15.4 | 23 24.4 | − 9 45 | 6.3 |
| *U* | 17 11.0 | 0 13 27 | −65.35 | 123.82 | − 2 29.3 | +15.8 | 23 30.9 | − 7 57 | 6.5 |
| 7 *O* | 5 33.8 | 0 38 19 | −65.69 | 125.00 | + 0 41.8 | +16.0 | 0 3.6 | − 2 57 | 6.3 |
| *U* | 17 57.0 | 1 3 31 | −66.25 | 127.05 | + 3 54.7 | +16.1 | 0 19.9 | − 2 43 | 6.3 |
| 8 *O* | 6 20.7 | 1 29 13 | −67.04 | 129.99 | + 7 7.0 | +15.9 | 1 3.8 | + 5 11 | 5.6 |
| *U* | 18 45.0 | 1 55 36 | −68.05 | 133.83 | +10 16.1 | +15.5 | 1 9.1 | + 7 6 | 5.4 |
| 9 *O* | 7 10.2 | 2 22 51 | −69.27 | 138.53 | +13 19.3 | +14.9 | 1 54.7 | +11 52 | 6.0 |
| *U* | 19 36.4 | 2 51 7 | −70.65 | 143.98 | +16 13.4 | +14.0 | 1 57.8 | +13 3 | 6.3 |
| 10 *O* | 8 3.8 | 3 20 31 | −72.13 | 149.98 | +18 54.7 | +12.8 | 2 51.4 | +17 40 | 5.6 |
| *U* | 20 32.4 | 3 51 9 | −73.64 | 156.24 | +21 19.6 | +11.3 | 3 2.4 | +17 32 | 6.0 |
| 11 *O* | 9 2.2 | 4 23 2 | −75.08 | 162.30 | +23 24.0 | + 9.4 | 3 51.8 | +22 55 | 6.0 |
| *U* | 21 33.2 | 4 56 4 | −76.32 | 167.66 | +25 4.0 | + 7.2 | 3 55.7 | +22 57 | 6.5 |
| 12 *O* | 10 5.1 | 5 30 2 | −77.24 | 171.72 | +26 16.2 | + 4.7 | 4 52.7 | +24 55 | 5.6 |
| *U* | 22 37.6 | 6 4 39 | −77.73 | 173.97 | +26 57.9 | + 2.1 | 4 59.1 | +27 34 | 6.5 |
| 13 *O* | 11 10.4 | 6 39 30 | −77.73 | 174.07 | +27 7.5 | − 0.6 | 5 55.4 | +27 34 | 6.1 |
| *U* | 23 43.0 | 7 14 8 | −77.22 | 172.01 | +26 45.1 | − 3.2 | 6 9.7 | +29 32 | 4.4 |
| 14 *O* | 12 14.9 | 7 48 8 | +76.26 | 167.77 | +25 51.9 | − 5.7 | 7 11.6 | +26 51 | 6.5 |
| — | — | — | — | — | — | — | 7 19.0 | +27 49 | 5.7 |
| 15 *U* | 0 45.9 | 8 21 11 | +74.94 | 162.18 | +24 30.4 | − 7.9 | 8 23.4 | +24 26 | 6.1 |
| *O* | 13 15.7 | 8 53 0 | +73.37 | 155.68 | +22 44.0 | − 9.8 | 8 27.8 | +24 23 | 6.4 |
| 16 *U* | 1 44.1 | 9 23 29 | +71.69 | 148.81 | +20 36.6 | −11.4 | 9 8.6 | +21 39 | 6.1 |
| *O* | 14 11.2 | 9 52 36 | +70.01 | 142.03 | +18 12.3 | −12.6 | 9 39.6 | +19 16 | 6.5 |
| 17 *U* | 2 37.0 | 10 20 24 | +68.40 | 135.69 | +15 34.8 | −13.6 | 10 17.1 | +15 25 | 6.1 |
| *O* | 15 1.5 | 10 46 59 | +66.93 | 130.01 | +12 47.7 | −14.3 | 10 27.5 | +14 36 | 5.8 |
| 18 *U* | 3 25.0 | 11 12 30 | +65.64 | 125.10 | + 9 54.0 | −14.7 | 11 9.4 | + 8 33 | 5.8 |
| *O* | 15 47.6 | 11 37 7 | +64.57 | 121.05 | + 6 56.5 | −14.9 | 11 19.3 | +11 1 | 4.1 |
| 19 *U* | 4 9.4 | 12 1 0 | +63.71 | 117.85 | + 3 57.4 | −14.9 | 11 55.4 | + 4 9 | 5.2 |
| *O* | 16 30.7 | 12 24 20 | +63.07 | 115.49 | + 0 58.7 | −14.8 | 12 5.1 | + 2 24 | 6.2 |
| 20 *U* | 4 51.6 | 12 47 17 | +62.65 | 113.95 | − 1 57.9 | −14.6 | 12 49.0 | − 3 44 | 6.5 |
| *O* | 17 12.3 | 13 9 59 | +62.45 | 113.19 | − 4 51.1 | −14.2 | 12 55.1 | − 3 20 | 5.7 |

Jan. 12 $13^h$ Perigäum.

## Mittlerer Mittag und Mitternacht.

| Datum | Wahre AR. | Diff. | Wahre Dekl. | Diff. | Log. sin. A. H. Par. | Diff. | Halbm. |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ° ′ ″ | | | ′ ″ |
| Jan. 20.0 | 12 38 17.14 | 22 8.57 | −0 48 45.6 | −2 49 49.2 | 8.20983 | −266 | 15 11.3 |
| 20.5 | 13 0 25.71 | 22 0.64 | 3 38 34.8 | 2 45 47.1 | 8.20717 | 238 | 15 5.7 |
| 21.0 | 13 22 26.35 | 22 0.63 | 6 24 21.9 | 2 40 33.0 | 8.20479 | 209 | 15 0.8 |
| 21.5 | 13 44 26.98 | 22 8.07 | 9 4 54.9 | 2 34 10.8 | 8.20270 | 176 | 14 56.4 |
| 22.0 | 14 6 35.05 | 22 22.45 | 11 39 5.7 | 2 26 40.9 | 8.20094 | 142 | 14 52.8 |
| 22.5 | 14 28 57.50 | 22 43.14 | 14 5 46.6 | 2 18 2.3 | 8.19952 | 108 | 14 49.9 |
| 23.0 | 14 51 40.64 | 23 9.41 | 16 23 48.9 | 2 8 13.0 | 8.19844 | 73 | 14 47.7 |
| 23.5 | 15 14 50.05 | 23 40.27 | 18 32 1.9 | 1 57 8.8 | 8.19771 | 40 | 14 46.2 |
| 24.0 | 15 38 30.32 | 24 14.58 | 20 29 10.7 | 1 44 47.2 | 8.19731 | −7 | 14 45.4 |
| 24.5 | 16 2 44.90 | 24 50.85 | 22 13 57.9 | −1 31 4.7 | 8.19724 | +24 | 14 45.2 |
| 25.0 | 16 27 35.75 | 25 27.43 | −23 45 2.6 | 1 16 1.0 | 8.19748 | 54 | 14 45.7 |
| 25.5 | 16 53 3.18 | 26 2.35 | 25 1 3.6 | 0 59 37.7 | 8.19802 | 81 | 14 46.8 |
| 26.0 | 17 19 5.53 | 26 33.65 | 26 0 41.3 | 0 42 0.7 | 8.19883 | 105 | 14 48.5 |
| 26.5 | 17 45 39.18 | 26 59.31 | 26 42 42.0 | 0 23 19.4 | 8.19988 | 127 | 14 50.6 |
| 27.0 | 18 12 38.49 | 27 17.76 | 27 6 1.4 | −0 3 48.4 | 8.20115 | 145 | 14 53.2 |
| 27.5 | 18 39 56.25 | 27 27.79 | 27 9 49.8 | +0 16 14.4 | 8.20260 | 161 | 14 56.2 |
| 28.0 | 19 7 24.04 | 27 28.93 | 26 53 35.4 | 0 36 27.3 | 8.20421 | 173 | 14 59.6 |
| 28.5 | 19 34 52.97 | 27 21.44 | 26 17 8.1 | 0 56 28.4 | 8.20594 | 182 | 15 3.1 |
| 29.0 | 20 2 14.41 | 27 6.31 | 25 20 39.7 | 1 15 54.5 | 8.20776 | 189 | 15 6.9 |
| 29.5 | 20 29 20.72 | 26 45.08 | 24 4 45.2 | +1 34 24.8 | 8.20965 | +193 | 15 10.9 |
| 30.0 | 20 56 5.80 | 26 19.68 | −22 30 20.4 | 1 51 41.4 | 8.21158 | 194 | 15 15.0 |
| 30.5 | 21 22 25.48 | 25 52.24 | 20 38 39.0 | 2 7 29.8 | 8.21352 | 193 | 15 19.1 |
| 31.0 | 21 48 17.72 | 25 24.86 | 18 31 9.2 | 2 21 38.6 | 8.21545 | 192 | 15 23.2 |
| 31.5 | 22 13 42.58 | 24 59.39 | 16 9 30.6 | 2 34 0.2 | 8.21737 | 187 | 15 27.2 |
| Febr. 1.0 | 22 38 41.97 | 24 37.57 | 13 35 30.4 | 2 44 29.2 | 8.21924 | 182 | 15 31.2 |
| 1.5 | 23 3 19.54 | 24 20.77 | 10 51 1.2 | 2 53 2.2 | 8.22106 | 177 | 15 35.1 |
| 2.0 | 23 27 40.31 | 24 10.13 | 7 57 59.0 | 2 59 36.8 | 8.22283 | 172 | 15 39.0 |
| 2.5 | 23 51 50.44 | 24 6.56 | 4 58 22.2 | 3 4 10.6 | 8.22455 | 166 | 15 42.7 |
| 3.0 | 0 15 57.00 | 24 10.74 | −1 54 11.6 | 3 6 41.2 | 8.22621 | 159 | 15 46.3 |
| 3.5 | 0 40 7.74 | 24 23.20 | +1 12 29.6 | +3 7 5.0 | 8.22780 | +153 | 15 49.8 |
| 4.0 | 1 4 30.94 | 24 44.23 | +4 19 34.6 | 3 5 16.6 | 8.22933 | 146 | 15 53.1 |
| 4.5 | 1 29 15.17 | 25 13.87 | 7 24 51.2 | 3 1 9.6 | 8.23079 | 140 | 15 56.3 |
| 5.0 | 1 54 29.04 | 25 51.86 | 10 26 0.8 | 2 54 35.8 | 8.23219 | 131 | 15 59.4 |
| 5.5 | 2 20 20.90 | 26 37.54 | 13 20 36.6 | 2 45 26.1 | 8.23350 | 123 | 16 2.3 |
| 6.0 | 2 46 58.44 | 27 29.61 | 16 6 2.7 | 2 33 31.5 | 8.23473 | 111 | 16 5.0 |
| 6.5 | 3 14 28.05 | 28 26.14 | 18 39 34.2 | 2 18 44.9 | 8.23584 | 100 | 16 7.5 |
| 7.0 | 3 42 54.19 | 29 24.24 | 20 58 19.1 | 2 1 2.6 | 8.23684 | 84 | 16 9.8 |
| 7.5 | 4 12 18.43 | 30 20.39 | 22 59 21.7 | 1 40 28.7 | 8.23768 | 67 | 16 11.6 |
| 8.0 | 4 42 38.82 | 31 10.24 | 24 39 50.4 | 1 17 16.1 | 8.23835 | 48 | 16 13.1 |
| 8.5 | 5 13 49.06 | | 25 57 6.5 | | 8.23883 | | 16 14.2 |

Jan. 21 19h 14m.4 Letzt. Viert. Jan. 29 22h 38m.3 Neumond. Febr. 6 4h 21m.2 Erst. Viert.

## Im Meridian von Berlin.

| Datum und Kulmination | | | Mittlere Zeit | AR. | Halbe Durchg.-D. Sternzeit | Bew. in 1h Länge | Dekl. | Bew. in 1h Länge | Vergl.-Sterne AR. | Vergl.-Sterne Dekl. | Vergl.-Sterne Gr. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | h m | h m s | s | s | ° ′ | ′ | h m | ° ′ | |
| Jan. | 20 | U | 4 51.6 | 12 47 17 | +62.65 | 113.95 | − 1 57.9 | −14.6 | 12 49.0 | − 3 44 | 6.5 |
| | | O | 17 12.3 | 13 9 59 | +62.45 | 113.19 | − 4 51.1 | −14.2 | 12 55.1 | − 3 20 | 5.7 |
| | 21 | U | 5 32.9 | 13 32 36 | +62.45 | 113.17 | − 7 39.3 | −13.8 | 13 28.3 | − 9 42 | 5.4 |
| | | O | 17 53.5 | 13 55 18 | +62.65 | 113.85 | −10 21.5 | −13.2 | 13 36.9 | − 8 15 | 5.3 |
| | 22 | U | 6 14.4 | 14 18 11 | +63.02 | 115.18 | −12 56.4 | −12.6 | 14 14.3 | −12 58 | 4.5 |
| | | O | 18 35.6 | 14 41 24 | +63.55 | 117.10 | −15 22.8 | −11.8 | 14 19.9 | −11 16 | 6.5 |
| | 23 | U | 6 57.2 | 15 5 2 | +64.21 | 119.55 | −17 39.4 | −10.9 | 15 1.8 | −16 8 | 6.5 |
| | | O | 19 19.4 | 15 29 13 | +64.97 | 122.42 | −19 44.9 | −10.0 | 15 7.1 | −19 27 | 4.7 |
| | 24 | U | 7 42.1 | 15 54 0 | +65.81 | 125.61 | −21 37.9 | − 8.9 | 15 55.0 | −22 22 | 2.5 |
| | | O | 20 5.5 | 16 19 26 | +66.69 | 128.98 | −23 17.0 | − 7.6 | 12 58.5 | −24 29 | 6.4 |
| | 25 | U | 8 29.6 | 16 45 33 | +67.54 | 132.34 | −24 40.5 | − 6.3 | 16 36.2 | −24 18 | 6.1 |
| | | O | 20 54.4 | 17 12 20 | +68.34 | 135.50 | −25 47.0 | − 4.8 | 16 54.5 | −24 57 | 6.2 |
| | 26 | U | 9 19.7 | 17 39 42 | +69.02 | 138.27 | −26 34.9 | − 3.2 | | | |
| | | O | 21 45.5 | 18 7 34 | +69.55 | 140.46 | −27 3.1 | − 1.5 | | | |
| | 27 | U | 10 11.7 | 18 35 49 | +69.89 | 141.91 | −27 10.5 | + 0.3 | | | |
| | | O | 22 38.1 | 19 4 16 | +70.02 | 142.52 | −26 56.4 | + 2.1 | | | |
| | 28 | U | 11 4.6 | 19 32 46 | +69.93 | 142.28 | −26 20.6 | + 3.9 | | | |
| | | O | 23 30.9 | 20 1 8 | +69.66 | 141.23 | −25 23.3 | + 5.7 | | | |
| | 29 | U | 11 56.9 | 20 29 14 | +69.21 | 139.51 | −24 5.1 | + 7.4 | | | |
| | | — | — | — | — | — | — | — | | | |
| | 30 | O | 0 22.6 | 20 56 56 | −68.63 | 137.40 | −22 27.1 | + 9.0 | | | |
| | | U | 12 47.8 | 21 24 9 | −67.99 | 134.92 | −20 30.7 | +10.4 | | | |
| | 31 | O | 1 12.5 | 21 50 52 | −67.34 | 132.36 | −18 17.5 | +11.7 | | | |
| | | U | 13 36.6 | 22 17 5 | −66.72 | 129.91 | −15 49.5 | +12.9 | | | |
| Febr. | 1 | O | 2 0.3 | 22 42 50 | −66.17 | 127.75 | −13 8.7 | +13.9 | | | |
| | | U | 14 23.6 | 23 8 12 | −65.74 | 126.03 | −10 17.1 | +14.7 | | | |
| | 2 | O | 2 46.7 | 23 33 17 | −65.46 | 124.87 | − 7 16.9 | +15.3 | | | |
| | | U | 15 9.6 | 23 58 11 | −65.36 | 124.36 | − 4 10.2 | +15.8 | | | |
| | 3 | O | 3 32.4 | 0 23 4 | −65.45 | 124.57 | − 0 59.3 | +16.0 | | | |
| | | U | 15 55.4 | 0 48 4 | −65.76 | 125.55 | + 2 13.7 | +16.1 | | | |
| | 4 | O | 4 18.7 | 1 13 21 | −66.28 | 127.34 | + 5 26.5 | +16.0 | 0 46.7 | + 2 54 | 6.5 |
| | | U | 16 42.4 | 1 39 5 | −67.01 | 129.95 | + 8 36.5 | +15.7 | 1 0.2 | + 5 11 | 6.2 |
| | 5 | O | 5 6.7 | 2 5 25 | −67.95 | 133.38 | +11 41.3 | +15.1 | 1 40.7 | + 8 43 | 4.5 |
| | | U | 17 31.7 | 2 32 31 | −69.05 | 137.56 | +14 38.1 | +14.3 | 1 46.1 | +10 36 | 6.0 |
| | 6 | O | 5 57.7 | 3 0 31 | −70.30 | 142.39 | +17 24.0 | +13.3 | 2 28.0 | +14 38 | 6.1 |
| | | U | 18 24.7 | 3 29 32 | −71.64 | 147.68 | +19 55.7 | +12.0 | 2 39.3 | +17 23 | 6.5 |
| | 7 | O | 6 52.7 | 3 59 38 | −72.99 | 153.15 | +22 10.1 | +10.4 | 3 22.0 | +18 27 | 6.4 |
| | | U | 19 21.8 | 4 30 49 | −74.26 | 158.42 | +24 3.7 | + 8.5 | 3 33.8 | +20 38 | 6.5 |
| | 8 | O | 7 52.0 | 5 3 0 | −75.35 | 163.05 | +25 33.3 | + 6.4 | 4 31.1 | +23 10 | 6.0 |
| | | U | 20 22.9 | 5 35 59 | −76.16 | 166.57 | +26 36.1 | + 4.1 | 4 36.9 | +22 47 | 4.3 |

Jan. 24 $9^h$ Apogäum.

## Mittlerer Mittag und Mitternacht.

| Datum | Wahre AR. | Diff. | Wahre Dekl. | Diff. | Log. sin. A. H. Par. | Diff. | Halbm. |
|---|---|---|---|---|---|---|---|
| Febr. 8.0 | 4ʰ 42ᵐ 38ˢ.82 | 31ᵐ 10ˢ.24 | +24° 39′ 50″.4 | +1° 17′ 16″.1 | 8.23835 | +48 | 16′ 13″.1 |
| 8.5 | 5 13 49.06 | 31 49.33 | 25 57 6.5 | 0 51 50.2 | 8.23883 | +24 | 16 14.2 |
| 9.0 | 5 45 38.39 | 32 13.63 | 26 48 56.7 | +0 24 49.0 | 8.23907 | −2 | 16 14.8 |
| 9.5 | 6 17 52.02 | 32 20.33 | 27 13 45.7 | −0 2 59.4 | 8.23905 | 29 | 16 14.7 |
| 10.0 | 6 50 12.35 | 32 8.40 | 27 10 46.3 | 0 30 40.7 | 8.23876 | 59 | 16 14.1 |
| 10.5 | 7 22 20.75 | 31 38.85 | 26 40 5.6 | 0 57 19.7 | 8.23817 | 90 | 16 12.7 |
| 11.0 | 7 53 59.60 | 30 54.43 | 25 42 45.9 | 1 22 8.0 | 8.23727 | 122 | 16 10.7 |
| 11.5 | 8 24 54.03 | 29 59.16 | 24 20 37.9 | 1 44 26.7 | 8.23605 | 152 | 16 8.0 |
| 12.0 | 8 54 53.19 | 28 57.43 | 22 36 11.2 | 2 3 50.5 | 8.23453 | 181 | 16 4.6 |
| 12.5 | 9 23 50.62 | 27 53.43 | 20 32 20.7 | −2 20 7.1 | 8.23272 | −208 | 16 0.6 |
| 13.0 | 9 51 44.05 | 26 50.66 | +18 12 13.6 | 2 33 14.1 | 8.23064 | 231 | 15 56.0 |
| 13.5 | 10 18 34.71 | 25 51.92 | 15 38 59.5 | 2 43 18.7 | 8.22833 | 250 | 15 50.9 |
| 14.0 | 10 44 26.63 | 24 59.07 | 12 55 40.8 | 2 50 32.8 | 8.22583 | 264 | 15 45.5 |
| 14.5 | 11 9 25.70 | 24 13.35 | 10 5 8.0 | 2 55 11.1 | 8.22319 | 274 | 15 39.7 |
| 15.0 | 11 33 39.05 | 23 35.34 | 7 9 56.9 | 2 57 29.8 | 8.22045 | 279 | 15 33.8 |
| 15.5 | 11 57 14.39 | 23 5.46 | 4 12 27.1 | 2 57 44.0 | 8.21766 | 276 | 15 27.8 |
| 16.0 | 12 20 19.85 | 22 43.59 | +1 14 43.1 | 2 56 8.2 | 8.21490 | 270 | 15 22.0 |
| 16.5 | 12 43 3.44 | 22 29.67 | −1 41 25.1 | 2 52 53.9 | 8.21220 | 257 | 15 16.3 |
| 17.0 | 13 5 33.11 | 22 23.37 | 4 34 19.0 | 2 48 11.7 | 8.20963 | 241 | 15 10.9 |
| 17.5 | 13 27 56.48 | 22 24.36 | 7 22 30.7 | −2 42 8.5 | 8.20722 | −220 | 15 5.8 |
| 18.0 | 13 50 20.84 | 22 32.25 | −10 4 39.2 | 2 34 49.6 | 8.20502 | 194 | 15 1.2 |
| 18.5 | 14 12 53.09 | 22 46.47 | 12 39 28.8 | 2 26 18.1 | 8.20308 | 167 | 14 57.2 |
| 19.0 | 14 35 39.56 | 23 6.46 | 15 5 46.9 | 2 16 35.3 | 8.20141 | 136 | 14 53.8 |
| 19.5 | 14 58 46.02 | 23 31.40 | 17 22 22.2 | 2 5 41.2 | 8.20005 | 103 | 14 51.0 |
| 20.0 | 15 22 17.42 | 24 0.36 | 19 28 3.4 | 1 53 34.8 | 8.19902 | 69 | 14 48.9 |
| 20.5 | 15 46 17.78 | 24 32.17 | 21 21 38.2 | 1 40 15.0 | 8.19833 | −33 | 14 47.5 |
| 21.0 | 16 10 49.95 | 25 5.46 | 23 1 53.2 | 1 25 40.8 | 8.19800 | +2 | 14 46.8 |
| 21.5 | 16 35 55.41 | 25 38.59 | 24 27 34.0 | 1 9 53.8 | 8.19802 | 36 | 14 46.8 |
| 22.0 | 17 1 34.00 | 26 9.83 | 25 37 27.8 | 0 52 56.2 | 8.19838 | 71 | 14 47.6 |
| 22.5 | 17 27 43.83 | 26 37.44 | 26 30 24.0 | −0 34 54.6 | 8.19909 | +103 | 14 49.0 |
| 23.0 | 17 54 21.27 | 26 59.69 | −27 5 18.6 | −0 15 57.9 | 8.20012 | 134 | 14 51.1 |
| 23.5 | 18 21 20.96 | 27 15.28 | 27 21 16.5 | +0 3 40.8 | 8.20146 | 161 | 14 53.9 |
| 24.0 | 18 48 36.24 | 27 23.29 | 27 17 35.7 | 0 23 45.2 | 8.20307 | 185 | 14 57.2 |
| 24.5 | 19 15 59.53 | 27 23.46 | 26 53 50.5 | 0 43 57.0 | 8.20492 | 206 | 15 1.0 |
| 25.0 | 19 43 22.99 | 27 16.12 | 26 9 53.5 | 1 3 56.1 | 8.20698 | 222 | 15 5.3 |
| 25.5 | 20 10 39.11 | 27 2.29 | 25 5 57.4 | 1 23 22.2 | 8.20920 | 235 | 15 10.0 |
| 26.0 | 20 37 41.40 | 26 43.41 | 23 42 35.2 | 1 41 55.9 | 8.21155 | 243 | 15 14.9 |
| 26.5 | 21 4 24.81 | 26 21.25 | 22 0 39.3 | 1 59 20.0 | 8.21398 | 247 | 15 20.0 |
| 27.0 | 21 30 46.06 | 25 57.69 | 20 1 19.3 | 2 15 18.3 | 8.21645 | 245 | 15 25.3 |
| 27.5 | 21 56 43.75 | | 17 46 1.0 | | 8.21890 | | 15 30.5 |

Febr. 12 23ʰ 31ᵐ.1 Vollmond. Febr. 20 10ʰ 37ᵐ.8 Letztes Viertel.

## Im Meridian von Berlin.

| Datum und Kulmination | | Mittlere Zeit | AR. | Halbe Durchg.-D. Sternzeit | Bew. in 1h Länge | Dekl. | Bew. in 1h Länge | Vergl.-Sterne AR. | Vergl.-Sterne Dekl. | Vergl.-Sterne Gr. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | h m | h m s | s | s | ° ' | ' | h m | ° ' | |
| Febr. 8 | O | 7 52.0 | 5 3 0 | −75.35 | 163.05 | +25 33.3 | + 6.4 | 4 31.1 | +23 10 | 6.0 |
| | U | 20 22.9 | 5 35 59 | −76.16 | 166.57 | +26 36.1 | + 4.1 | 4 36.9 | +22 47 | 4.3 |
| 9 | O | 8 54.4 | 6 9 32 | −76.59 | 168.56 | +27 10.0 | + 1.6 | 5 34.2 | +25 51 | 5.1 |
| | U | 21 26.1 | 6 43 18 | −76.60 | 168.76 | +27 13.8 | − 1.0 | 5 45.4 | +27 57 | 5.6 |
| 10 | O | 9 57.7 | 7 16 55 | −76.17 | 167.12 | +26 47.3 | − 3.5 | 6 39.1 | +29 4 | 5.5 |
| | U | 22 28.7 | 7 50 1 | −75.33 | 163.79 | +25 51.5 | − 5.8 | 6 53.3 | +26 12 | 6.2 |
| 11 | O | 10 58.9 | 8 22 19 | −74.17 | 159.15 | +24 28.5 | − 8.0 | 7 48.1 | +27 0 | 4.9 |
| | U | 23 28.1 | 8 53 35 | −72.80 | 153.63 | +22 41.2 | − 9.9 | 7 55.6 | +25 38 | 6.1 |
| 12 | O | 11 56.2 | 9 23 42 | −71.32 | 147.70 | +20 33.0 | −11.5 | 9 2.3 | +23 20 | 6.3 |
| — | | — | — | — | — | — | — | 9 8.6 | +21 39 | 6.1 |
| 13 | U | 0 23.1 | 9 52 37 | +69.81 | 141.48 | +18 7.5 | −12.8 | 10 0.9 | +16 11 | 6.3 |
| | O | 12 48.8 | 10 20 22 | +68.35 | 135.83 | +15 28.2 | −13.8 | 10 11.4 | +18 11 | 6.5 |
| 14 | U | 1 13.4 | 10 47 2 | +67.01 | 130.71 | +12 38.6 | −14.5 | 10 44.6 | +11 1 | 5.3 |
| | O | 13 37.1 | 11 12 44 | +65.84 | 126.25 | + 9 41.7 | −15.0 | 10 59.9 | +13 9 | 6.7 |
| 15 | U | 1 59.9 | 11 37 37 | +64.85 | 122.53 | + 6 40.5 | −15.2 | 11 33.9 | + 8 38 | 5.4 |
| | O | 14 22.1 | 12 1 50 | +64.07 | 119.58 | + 3 37.3 | −15.3 | 11 41.3 | + 7 2 | 4.2 |
| 16 | U | 2 43.8 | 12 25 32 | +63.49 | 117.39 | + 0 34.4 | −15.2 | 12 15.4 | − 0 10 | 4.0 |
| | O | 15 5.1 | 12 48 51 | +63.12 | 115.95 | − 2 26.2 | −14.9 | 12 37.2 | − 0 58 | 2.9 |
| 17 | U | 3 26.2 | 13 11 58 | +62.94 | 115.24 | − 5 23.0 | −14.5 | 13 5.3 | − 5 4 | 4.4 |
| | O | 15 47.2 | 13 35 0 | +62.97 | 115.22 | − 8 14.4 | −14.0 | 13 25.8 | − 6 1 | 6.1 |
| 18 | U | 4 8.3 | 13 58 6 | +63.18 | 115.86 | −10 58.9 | −13.4 | 14 4.3 | − 9 55 | 6.5 |
| | O | 16 29.5 | 14 21 23 | +63.55 | 117.10 | −13 35.3 | −12.7 | 14 14.3 | −12 58 | 4.5 |
| 19 | U | 4 51.0 | 14 44 57 | +64.07 | 118.88 | −16 2.2 | −11.8 | 14 46.0 | −15 40 | 2.9 |
| | O | 17 13.0 | 15 8 56 | +64.71 | 121.14 | −18 18.4 | −10.9 | 15 1.8 | −16 8 | 6.5 |
| 20 | U | 5 35.4 | 15 33 25 | +65.44 | 123.79 | −20 22.5 | − 9.8 | 15 32.6 | −22 51 | 6.0 |
| | O | 17 58.4 | 15 58 27 | +66.24 | 126.72 | −22 13.3 | − 8.6 | 15 36.8 | −19 23 | 5.0 |
| 21 | U | 6 22.0 | 16 24 5 | +67.06 | 129.79 | −23 49.2 | − 7.3 | 16 24.8 | −24 55 | 4.8 |
| | O | 18 46.2 | 16 50 19 | +67.86 | 132.85 | −25 9.0 | − 5.9 | 16 36.2 | −24 18 | 6.1 |
| 22 | U | 7 11.0 | 17 17 10 | +68.60 | 135.71 | −26 11.3 | − 4.4 | 17 16.5 | −24 55 | 3.4 |
| | O | 19 36.4 | 17 44 34 | +69.23 | 138.21 | −26 54.7 | − 2.8 | 17 21.4 | −25 52 | 6.3 |
| 23 | U | 8 2.2 | 18 12 24 | +69.71 | 140.19 | −27 18.1 | − 1.1 | 18 12.5 | −27 5 | 4.7 |
| | O | 20 28.3 | 18 40 34 | +70.02 | 141.49 | −27 20.7 | + 0.7 | 18 16.4 | −28 28 | 6.1 |
| 24 | U | 8 54.6 | 19 8 56 | +70.13 | 142.05 | −27 1.9 | + 2.5 | | | |
| | O | 21 21.0 | 19 37 20 | +70.05 | 141.86 | −26 21.3 | + 4.3 | | | |
| 25 | U | 9 47.3 | 20 5 38 | +69.79 | 140.97 | −25 19.2 | + 6.1 | | | |
| | O | 22 13.3 | 20 33 42 | +69.37 | 139.49 | −23 56.1 | + 7.8 | | | |
| 26 | U | 10 39.0 | 21 1 25 | +68.85 | 137.59 | −22 13.0 | + 9.4 | | | |
| | O | 23 4.2 | 21 28 44 | +68.27 | 135.45 | −20 11.2 | +10.9 | | | |
| 27 | U | 11 29.1 | 21 55 37 | +67.69 | 133.26 | −17 52.1 | +12.2 | | | |
| | O | 23 53.5 | 22 22 5 | +67.14 | 131.21 | −15 17.8 | +13.4 | | | |

Febr. 9 6h Perigäum. Febr. 21 5h Apogäum.

## Mittlerer Mittag und Mitternacht.

| Datum | Wahre AR. | Diff. | Wahre Dekl. | Diff. | Log. sin. A. H. Par. | Diff. | Halbm. |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ° ′ ″ | | | ′ ″ |
| Febr. 27.0 | 21 30 46.06 | 25 57.69 | −20 1 19.3 | +2 15 18.3 | 8.21645 | +245 | 15 25.3 |
| 27.5 | 21 56 43.75 | 25 34.61 | 17 46 1.0 | 2 29 38.3 | 8.21890 | 241 | 15 30.5 |
| 28.0 | 22 22 18.36 | 25 13.79 | 15 16 22.7 | 2 42 8.6 | 8.22131 | 230 | 15 35.7 |
| 28.5 | 22 47 32.15 | 24 56.65 | 12 34 14.1 | 2 52 40.3 | 8.22361 | 218 | 15 40.6 |
| März 1.0 | 23 12 28.80 | 24 44.52 | 9 41 33.8 | 3 1 5.6 | 8.22579 | 201 | 15 45.4 |
| 1.5 | 23 37 13.32 | 24 38.42 | 6 40 28.2 | 3 7 18.3 | 8.22780 | 182 | 15 49.8 |
| 2.0 | 0 1 51.74 | 24 39.17 | 3 33 9.9 | 3 11 12.2 | 8.22962 | 162 | 15 53.8 |
| 2.5 | 0 26 30.91 | 24 47.29 | − 0 21 57.7 | 3 12 42.1 | 8.23124 | 140 | 15 57.3 |
| 3.0 | 0 51 18.20 | 25 3.16 | + 2 50 44.4 | 3 11 42.7 | 8.23264 | 118 | 16 0.4 |
| 3.5 | 1 16 21.36 | 25 26.90 | 6 2 27.1 | +3 8 9.1 | 8.23382 | + 95 | 16 3.0 |
| 4.0 | 1 41 48.26 | 25 58.21 | + 9 10 36.2 | 3 1 56.3 | 8.23477 | 74 | 16 5.1 |
| 4.5 | 2 7 46.47 | 26 36.55 | 12 12 32.5 | 2 52 59.2 | 8.23551 | 54 | 16 6.8 |
| 5.0 | 2 34 23.02 | 27 20.79 | 15 5 31.7 | 2 41 15.0 | 8.23605 | 33 | 16 8.0 |
| 5.5 | 3 1 43.81 | 28 9.22 | 17 46 46.7 | 2 26 41.7 | 8.23638 | + 17 | 16 8.7 |
| 6.0 | 3 29 53.03 | 28 59.45 | 20 13 28.4 | 2 9 21.7 | 8.23655 | 0 | 16 9.1 |
| 6.5 | 3 58 52.48 | 29 48.39 | 22 22 50.1 | 1 49 22.5 | 8.23655 | − 16 | 16 9.1 |
| 7.0 | 4 28 40.87 | 30 32.50 | 24 12 12.6 | 1 26 58.9 | 8.23639 | 29 | 16 8.8 |
| 7.5 | 4 59 13.37 | 31 7.95 | 25 39 11.5 | 1 2 33.8 | 8.23610 | 43 | 16 8.1 |
| 8.0 | 5 30 21.32 | 31 31.27 | 26 41 45.3 | 0 36 40.2 | 8.23567 | 56 | 16 7.1 |
| 8.5 | 6 1 52.59 | 31 39.80 | 27 18 25.5 | +0 9 57.5 | 8.23511 | − 70 | 16 5.9 |
| 9.0 | 6 33 32.39 | 31 32.37 | +27 28 23.0 | −0 16 49.0 | 8.23441 | 82 | 16 4.3 |
| 9.5 | 7 5 4.76 | 31 9.36 | 27 11 34.0 | 0 42 53.6 | 8.23359 | 94 | 16 2.5 |
| 10.0 | 7 36 14.12 | 30 32.66 | 26 28 40.4 | 1 7 34.4 | 8.23265 | 109 | 16 0.4 |
| 10.5 | 8 6 46.78 | 29 45.37 | 25 21 6.0 | 1 30 16.9 | 8.23156 | 122 | 15 58.0 |
| 11.0 | 8 36 32.15 | 28 51.16 | 23 50 49.1 | 1 50 35.6 | 8.23034 | 137 | 15 55.3 |
| 11.5 | 9 5 23.31 | 27 53.65 | 22 0 13.5 | 2 8 14.9 | 8.22897 | 151 | 15 52.3 |
| 12.0 | 9 33 16.96 | 26 56.15 | 19 51 58.6 | 2 23 7.8 | 8.22746 | 165 | 15 49.0 |
| 12.5 | 10 0 13.11 | 26 1.29 | 17 28 50.8 | 2 35 14.8 | 8.22581 | 179 | 15 45.4 |
| 13.0 | 10 26 14.40 | 25 11.06 | 14 53 36.0 | 2 44 40.5 | 8.22402 | 190 | 15 41.5 |
| 13.5 | 10 51 25.46 | 24 26.81 | 12 8 55.5 | −2 51 33.8 | 8.22212 | −201 | 15 37.4 |
| 14.0 | 11 15 52.27 | 23 49.40 | + 9 17 21.7 | 2 56 4.5 | 8.22011 | 210 | 15 33.1 |
| 14.5 | 11 39 41.67 | 23 19.22 | 6 21 17.2 | 2 58 23.7 | 8.21801 | 215 | 15 28.6 |
| 15.0 | 12 3 0.89 | 22 56.49 | 3 22 53.5 | 2 58 41.3 | 8.21586 | 218 | 15 24.0 |
| 15.5 | 12 25 57.38 | 22 41.10 | + 0 24 12.2 | 2 57 7.4 | 8.21368 | 217 | 15 19.4 |
| 16.0 | 12 48 38.48 | 22 32.88 | − 2 32 55.2 | 2 53 50.4 | 8.21151 | 214 | 15 14.8 |
| 16.5 | 13 11 11.36 | 22 31.57 | 5 26 45.6 | 2 48 57.8 | 8.20937 | 206 | 15 10.3 |
| 17.0 | 13 33 42.93 | 22 36.75 | 8 15 43.4 | 2 42 36.0 | 8.20731 | 195 | 15 6.0 |
| 17.5 | 13 56 19.68 | 22 47.97 | 10 58 19.4 | 2 34 49.2 | 8.20536 | 178 | 15 1.9 |
| 18.0 | 14 19 7.65 | 23 4.70 | 13 33 8.6 | 2 25 41.3 | 8.20358 | 160 | 14 58.3 |
| 18.5 | 14 42 12.35 | | 15 58 49.9 | | 8.20198 | | 14 55.0 |

Febr. 28 13h 24.7m Neumond. März 7 11h 55.1m Erst. Viert. März 14 12h 52.1m Vollmond.

## Im Meridian von Berlin.

| Datum und Kulmination | Mittlere Zeit | AR. | Halbe Durchg.-D. Sternzeit | Bew. in 1h Länge | Dekl. | Bew. in 1h Länge | Vergl.-Sterne AR. | Vergl.-Sterne Dekl. | Vergl.-Sterne Gr. |
|---|---|---|---|---|---|---|---|---|---|
| | h m | h m s | s | s | ° ′ | ′ | | | |
| Febr. 27 U | 11 29.1 | 21 55 37 | +67.69 | 133.26 | −17 52.1 | +12.2 | | | |
| O | 23 53.5 | 22 22 5 | +67.14 | 131.21 | −15 17.8 | +13.4 | | | |
| 28 U | 12 17.5 | 22 48 9 | +66.66 | 129.45 | −12 30.2 | +14.5 | | | |
| — | — | — | — | — | — | — | | | |
| März 1 O | 0 41.2 | 23 13 54 | −66.31 | 128.17 | − 9 31.4 | +15.3 | | | |
| U | 13 4.7 | 23 39 26 | −66.11 | 127.34 | − 6 23.8 | +15.9 | | | |
| 2 O | 1 28.1 | 0 4 53 | −66.07 | 127.14 | − 3 9.9 | +16.4 | | | |
| U | 13 51.6 | 0 30 21 | −66.23 | 127.63 | + 0 7.9 | +16.6 | | | |
| 3 O | 2 15.2 | 0 55 59 | −66.59 | 128.84 | + 3 26.9 | +16.6 | | | |
| U | 14 39.1 | 1 21 56 | −67.15 | 130.79 | + 6 44.4 | +16.3 | | | |
| 4 O | 3 3.5 | 1 48 22 | −67.90 | 133.49 | + 9 57.7 | +15.8 | | | |
| U | 15 28.5 | 2 15 25 | −68.83 | 136.89 | +13 3.7 | +15.1 | | | |
| 5 O | 3 54.2 | 2 43 12 | −69.90 | 140.90 | +15 59.4 | +14.1 | | | |
| U | 16 20.8 | 3 11 50 | −71.07 | 145.37 | +18 41.7 | +12.9 | h m | ° ′ | |
| 6 O | 4 48.3 | 3 41 24 | −72.28 | 150.07 | +21 7.5 | +11.4 | 3 9.8 | +20 43 | 4.8 |
| U | 17 16.8 | 4 11 54 | −73.44 | 154.71 | +23 13.6 | + 9.6 | 3 16.1 | +20 50 | 5.2 |
| 7 O | 5 46.1 | 4 43 17 | −74.48 | 158.92 | +24 57.0 | + 7.6 | 4 7.6 | +22 11 | 6.1 |
| U | 18 16.2 | 5 15 26 | −75.30 | 162.30 | +26 15.0 | + 5.4 | 4 14.3 | +21 34 | 5.2 |
| 8 O | 6 46.9 | 5 48 8 | −75.81 | 164.47 | +27 5.7 | + 3.0 | 5 15.4 | +27 52 | 6.4 |
| U | 19 17.8 | 6 21 8 | −75.95 | 165.18 | +27 27.7 | + 0.6 | 5 23.8 | +25 5 | 5.4 |
| 9 O | 7 48.7 | 6 54 6 | −75.71 | 164.31 | +27 20.5 | − 1.8 | 6 9.7 | +29 32 | 4.4 |
| U | 20 19.3 | 7 26 44 | −75.10 | 161.91 | +26 44.5 | − 4.2 | 6 29.6 | +28 6 | 5.1 |
| 10 O | 8 49.3 | 7 58 45 | −74.16 | 158.21 | +25 41.3 | − 6.4 | 7 24.3 | +28 6 | 5.0 |
| U | 21 18.4 | 8 29 56 | −72.97 | 153.57 | +24 13.0 | − 8.4 | 7 30.5 | +27 6 | 4.3 |
| 11 O | 9 46.5 | 9 0 7 | −71.64 | 148.35 | +22 22.2 | −10.1 | 8 23.4 | +24 26 | 6.1 |
| U | 22 13.6 | 9 29 13 | −70.24 | 142.94 | +20 11.9 | −11.6 | 8 27.8 | +24 23 | 6.4 |
| 12 O | 10 39.6 | 9 57 15 | −68.85 | 137.65 | +17 45.5 | −12.8 | 9 8.6 | +21 39 | 6.1 |
| U | 23 4.6 | 10 24 16 | −67.54 | 132.71 | +15 5.9 | −13.8 | 9 39.6 | +19 16 | 6.5 |
| 13 O | 11 28.6 | 10 50 21 | −66.36 | 128.30 | +12 16.3 | −14.5 | 10 17.1 | +15 25 | 6.1 |
| U | 23 51.8 | 11 15 36 | −65.33 | 124.51 | + 9 19.3 | −15.0 | 10 27.5 | +14 36 | 5.8 |
| 14 O | 12 14.3 | 11 40 10 | −64.48 | 121.41 | + 6 17.7 | −15.3 | 11 9.4 | + 8 33 | 5.8 |
| — | — | — | — | — | — | — | 11 19.3 | +11 1 | 4.1 |
| 15 U | 0 36.3 | 12 4 11 | +63.83 | 118.89 | + 3 13.9 | −15.4 | 12 5.1 | + 2 24 | 6.2 |
| O | 12 57.9 | 12 27 47 | +63.37 | 117.21 | + 0 9.9 | −15.3 | 12 14.1 | − 0 18 | 5.9 |
| 16 U | 1 19.2 | 12 51 8 | +63.10 | 116.22 | − 2 52.2 | −15.0 | 12 49.1 | − 3 44 | 6.5 |
| O | 13 40.4 | 13 14 20 | +63.03 | 115.89 | − 5 50.6 | −14.6 | 12 55.1 | − 3 20 | 5.7 |
| 17 U | 2 1.6 | 13 37 31 | +63.14 | 116.18 | − 8 43.7 | −14.1 | 13 37.0 | − 8 15 | 5.3 |
| O | 14 22.9 | 14 0 50 | +63.41 | 117.06 | −11 29.7 | −13.5 | 13 42.5 | − 9 16 | 6.2 |
| 18 U | 2 44.4 | 14 24 22 | +63.83 | 118.46 | −14 7.3 | −12.7 | 14 19.9 | −11 16 | 6.5 |
| O | 15 6.2 | 14 48 14 | +64.39 | 120.33 | −16 34.9 | −11.8 | 14 32.3 | −11 56 | 6.2 |

März 6 $5^h$ Perigäum.

## Mittlerer Mittag und Mitternacht.

| Datum | Wahre AR. | Diff. | Wahre Dekl. | Diff. | Log. sin. A. H. Par. | Diff. | Halbm. |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ° ′ ″ | | | ′ ″ |
| März 18.0 | 14 19 7.65 | 23 4.70 | −13 33 8.6 | −2 25 41.3 | 8.20358 | −160 | 14 58.3 |
| 18.5 | 14 42 12.35 | 23 26.19 | 15 58 49.9 | 2 15 14.6 | 8.20198 | 138 | 14 55.0 |
| 19.0 | 15 5 38.54 | 23 51.59 | 18 14 4.5 | 2 3 31.2 | 8.20060 | 113 | 14 52.1 |
| 19.5 | 15 29 30.13 | 24 19.89 | 20 17 35.7 | 1 50 32.6 | 8.19947 | 84 | 14 49.8 |
| 20.0 | 15 53 50.02 | 24 49.89 | 22 8 8.3 | 1 36 20.4 | 8.19863 | 54 | 14 48.1 |
| 20.5 | 16 18 39.91 | 25 20.15 | 23 44 28.7 | 1 20 57.6 | 8.19809 | − 23 | 14 47.0 |
| 21.0 | 16 44 0.06 | 25 49.19 | 25 5 26.3 | 1 4 28.3 | 8.19786 | + 12 | 14 46.5 |
| 21.5 | 17 9 49.25 | 26 15.42 | 26 9 54.6 | 0 46 58.0 | 8.19798 | 46 | 14 46.8 |
| 22.0 | 17 36 4.67 | 26 37.39 | 26 56 52.6 | 0 28 35.0 | 8.19844 | 81 | 14 47.7 |
| 22.5 | 18 2 42.06 | 26 53.82 | 27 25 27.6 | −0 9 30.2 | 8.19925 | +116 | 14 49.3 |
| 23.0 | 18 29 35.88 | 27 3.81 | −27 34 57.8 | +0 10 3.6 | 8.20041 | 148 | 14 51.7 |
| 23.5 | 18 56 39.69 | 27 6.99 | 27 24 54.2 | 0 29 51.8 | 8.20189 | 181 | 14 54.8 |
| 24.0 | 19 23 46.68 | 27 3.47 | 26 55 2.4 | 0 49 38.8 | 8.20370 | 209 | 14 58.5 |
| 24.5 | 19 50 50.15 | 26 53.94 | 26 5 23.6 | 1 9 7.6 | 8.20579 | 236 | 15 2.8 |
| 25.0 | 20 17 44.09 | 26 39.58 | 24 56 16.0 | 1 28 3.1 | 8.20815 | 260 | 15 7.8 |
| 25.5 | 20 44 23.67 | 26 21.81 | 23 28 12.9 | 1 46 9.8 | 8.21075 | 278 | 15 13.2 |
| 26.0 | 21 10 45.48 | 26 2.31 | 21 42 3.1 | 2 3 14.3 | 8.21353 | 292 | 15 19.1 |
| 26.5 | 21 36 47.79 | 25 42.81 | 19 38 48.8 | 2 19 2.6 | 8.21645 | 299 | 15 25.3 |
| 27.0 | 22 2 30.60 | 25 24.95 | 17 19 46.2 | 2 33 23.5 | 8.21944 | 303 | 15 31.7 |
| 27.5 | 22 27 55.55 | 25 10.18 | 14 46 22.7 | +2 46 5.3 | 8.22247 | +300 | 15 38.2 |
| 28.0 | 22 53 5.73 | 24 59.86 | −12 0 17.4 | 2 56 56.5 | 8.22547 | 289 | 15 44.7 |
| 28.5 | 23 18 5.59 | 24 55.05 | 9 3 20.9 | 3 5 45.8 | 8.22836 | 274 | 15 51.0 |
| 29.0 | 23 43 0.64 | 24 56.68 | 5 57 35.1 | 3 12 21.7 | 8.23110 | 253 | 15 57.0 |
| 29.5 | 0 7 57.32 | 25 5.40 | − 2 45 13.4 | 3 16 32.2 | 8.23363 | 225 | 16 2.6 |
| 30.0 | 0 33 2.72 | 25 21.68 | + 0 31 18.8 | 3 18 6.2 | 8.23588 | 196 | 16 7.6 |
| 30.5 | 0 58 24.40 | 25 45.67 | 3 49 25.0 | 3 16 52.0 | 8.23784 | 160 | 16 12.0 |
| 31.0 | 1 24 10.07 | 26 17.28 | 7 6 17.0 | 3 12 39.3 | 8.23944 | 123 | 16 15.6 |
| 31.5 | 1 50 27.35 | 26 55.91 | 10 18 56.3 | 3 5 19.5 | 8.24067 | 84 | 16 18.3 |
| April 1.0 | 2 17 23.26 | 27 40.55 | 13 24 15.8 | 2 54 47.0 | 8.24151 | 47 | 16 20.2 |
| 1.5 | 2 45 3.81 | 28 29.42 | 16 19 2.8 | +2 40 59.2 | 8.24198 | + 9 | 16 21.3 |
| 2.0 | 3 13 33.23 | 29 20.11 | +19 0 2.0 | 2 23 59.4 | 8.24207 | − 26 | 16 21.5 |
| 2.5 | 3 42 53.34 | 30 9.44 | 21 24 1.4 | 2 3 58.1 | 8.24181 | 58 | 16 20.9 |
| 3.0 | 4 13 2.78 | 30 53.66 | 23 27 59.5 | 1 41 14.7 | 8.24123 | 87 | 16 19.6 |
| 3.5 | 4 43 56.44 | 31 28.86 | 25 9 14.2 | 1 16 17.5 | 8.24036 | 112 | 16 17.6 |
| 4.0 | 5 15 25.30 | 31 51.35 | 26 25 31.7 | 0 49 44.7 | 8.23924 | 133 | 16 15.1 |
| 4.5 | 5 47 16.65 | 31 58.49 | 27 15 16.4 | +0 22 20.9 | 8.23791 | 151 | 16 12.1 |
| 5.0 | 6 19 15.14 | 31 49.02 | 27 37 37.3 | −0 5 4.7 | 8.23640 | 164 | 16 8.8 |
| 5.5 | 6 51 4.16 | 31 23.41 | 27 32 32.6 | 0 31 44.7 | 8.23476 | 174 | 16 5.1 |
| 6.0 | 7 22 27.57 | 30 43.85 | 27 0 47.9 | 0 56 56.8 | 8.23302 | 182 | 16 1.3 |
| 6.5 | 7 53 11.42 | | 26 3 51.1 | | 8.23120 | | 15 57.3 |

März 22 13h 20.0m Letzt. Viert. März 30 1h 31.4m Neumond. April 5 18h 48.5m Erst. Viert.

## Im Meridian von Berlin.

| Datum und Kulmination | | Mittlere Zeit | AR. | Halbe Durchg.-D. Sternzeit | Bew. in 1h Länge | Dekl. | Bew. in 1h Länge | Vergl.-Sterne AR. | Dekl. | Gr. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | h m | h m s | s | s | ° ′ | ′ | h m | ° ′ | |
| März 18 | U | 2 44.4 | 14 24 22 | +63.83 | 118.46 | −14 7.3 | −12.7 | 14 19.9 | −11 16 | 6.5 |
| | O | 15 6.2 | 14 48 14 | +64.39 | 120.33 | −16 34.9 | −11.8 | 14 32.3 | −11 56 | 6.2 |
| 19 | U | 3 28.4 | 15 12 30 | +65.04 | 122.59 | −18 51.1 | −10.8 | 15 9.5 | −17 26 | 6.3 |
| | O | 15 51.2 | 15 37 16 | +65.77 | 125.15 | −20 54.6 | − 9.7 | 15 15.9 | −17 50 | 6.2 |
| 20 | U | 4 14.4 | 16 2 33 | +66.54 | 127.90 | −22 43.9 | − 8.5 | 16 3.4 | −23 27 | 5.8 |
| | O | 16 38.2 | 16 28 24 | +67.33 | 130.70 | −24 17.7 | − 7.1 | 16 8.4 | −24 12 | 6.3 |
| 21 | U | 5 2.6 | 16 54 48 | +68.07 | 133.40 | −25 34.6 | − 5.7 | 16 54.7 | −24 51 | 5.8 |
| | O | 17 27.5 | 17 21 43 | +68.73 | 135.85 | −26 33.5 | − 4.1 | 17 1.4 | −26 24 | 6.2 |
| 22 | U | 5 52.8 | 17 49 5 | +69.27 | 137.89 | −27 13.2 | − 2.5 | 17 42.9 | −26 57 | 6.2 |
| | O | 18 18.5 | 18 16 49 | +69.67 | 139.39 | −27 32.9 | − 0.8 | 17 51.1 | −28 3 | 5.7 |
| 23 | U | 6 44.4 | 18 44 47 | +69.89 | 140.27 | −27 31.8 | + 1.0 | 18 40.1 | −27 5 | 3.3 |
| | O | 19 10.4 | 19 12 52 | +69.94 | 140.50 | −27 9.4 | + 2.8 | 18 49.7 | −26 24 | 2.1 |
| 24 | U | 7 36.5 | 19 40 57 | +69.82 | 140.09 | −26 25.8 | + 4.6 | 19 31.3 | −25 5 | 4.6 |
| | O | 20 2.4 | 20 8 53 | +69.54 | 139.11 | −25 21.2 | + 6.3 | 19 50.4 | −26 32 | 4.8 |
| 25 | U | 8 28.0 | 20 36 34 | +69.14 | 137.69 | −23 56.1 | + 7.9 | 20 34.9 | −24 6 | 6.3 |
| | O | 20 53.3 | 21 3 57 | +68.67 | 135.99 | −22 11.3 | + 9.5 | 20 47.8 | −24 7 | 6.2 |
| 26 | U | 9 18.3 | 21 30 59 | +68.16 | 134.16 | −20 7.9 | +11.0 | | | |
| | O | 21 43.0 | 21 57 39 | +67.65 | 132.38 | −17 47.4 | +12.4 | | | |
| 27 | U | 10 7.3 | 22 23 58 | +67.20 | 130.81 | −15 11.3 | +13.6 | | | |
| | O | 22 31.3 | 22 50 0 | +66.85 | 129.59 | −12 21.4 | +14.7 | | | |
| 28 | U | 10 55.1 | 23 15 51 | +66.62 | 128.84 | − 9 19.7 | +15.6 | | | |
| | O | 23 18.8 | 23 41 35 | +66.55 | 128.66 | − 6 8.4 | +16.3 | | | |
| 29 | U | 11 42.5 | 0 7 21 | +66.65 | 129.12 | − 2 50.0 | +16.8 | | | |
| — | | — | — | — | — | — | — | | | |
| 30 | O | 0 6.4 | 0 33 16 | +66.96 | 130.27 | + 0 33.1 | +17.0 | | | |
| | U | 12 30.6 | 0 59 29 | −67.47 | 132.07 | + 3 57.8 | +17.0 | | | |
| 31 | O | 0 55.2 | 1 26 10 | −68.16 | 134.67 | + 7 21.2 | +16.8 | | | |
| | U | 13 20.4 | 1 53 26 | −69.04 | 137.99 | +10 40.1 | +16.3 | | | |
| April 1 | O | 1 46.4 | 2 21 26 | −70.09 | 141.94 | +13 50.9 | +15.5 | | | |
| | U | 14 13.2 | 2 50 16 | −71.26 | 146.39 | +16 50.0 | +14.3 | | | |
| 2 | O | 2 40.9 | 3 20 2 | −72.48 | 151.12 | +19 33.8 | +12.9 | | | |
| | U | 15 9.6 | 3 50 45 | −73.68 | 155.84 | +21 58.7 | +11.2 | | | |
| 3 | O | 3 39.2 | 4 22 23 | −74.77 | 160.17 | +24 1.3 | + 9.2 | | | |
| | U | 16 9.5 | 4 54 48 | −75.65 | 163.71 | +25 38.6 | + 7.0 | | | |
| 4 | O | 4 40.4 | 5 27 48 | −76.23 | 166.04 | +26 48.1 | + 4.6 | 4 52.7 | +24 55 | 5.6 |
| | U | 17 11.7 | 6 1 7 | −76.45 | 166.89 | +27 28.3 | + 2.1 | 4 59.1 | +27 34 | 6.5 |
| 5 | O | 5 43.0 | 6 34 26 | −76.26 | 166.08 | +27 38.6 | − 0.4 | 5 55.4 | +27 34 | 6.1 |
| | U | 18 13.9 | 7 7 26 | −75.68 | 163.69 | +27 19.3 | − 2.8 | 6 9.7 | +29 32 | 4.4 |
| 6 | O | 6 44.2 | 7 39 48 | −74.76 | 159.90 | +26 31.8 | − 5.1 | 7 5.9 | +27 0 | 5.6 |
| | U | 19 13.7 | 8 11 18 | −73.56 | 155.10 | +25 18.2 | − 7.2 | 7 10.4 | +28 3 | 5.9 |

März 21 $2^h$ Apogäum. April 1 $21^h$ Perigäum.

## Mittlerer Mittag und Mitternacht.

| Datum | Wahre AR. | Diff. | Wahre Dekl. | Diff. | Log. sin. A. H. Par. | Diff. | Halbm. |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ° ′ ″ | | | ′ ″ |
| April 6.0 | 7 22 27.57 | | +27 0 47.9 | | 8.23302 | | 16 1.3 |
| | | 30 43.85 | | −0 56 56.8 | | −182 | |
| 6.5 | 7 53 11.42 | | 26 3 51.1 | | 8.23120 | | 15 57.3 |
| | | 29 53.51 | | 1 20 7.6 | | 187 | |
| 7.0 | 8 23 4.93 | | 24 43 43.5 | | 8.22933 | | 15 53.1 |
| | | 28 56.32 | | 1 40 54.4 | | 190 | |
| 7.5 | 8 52 1.25 | | 23 2 49.1 | | 8.22743 | | 15 49.0 |
| | | 27 56.01 | | 1 59 4.9 | | 192 | |
| 8.0 | 9 19 57.26 | | 21 3 44.2 | | 8.22551 | | 15 44.8 |
| | | 26 56.00 | | 2 14 34.8 | | 192 | |
| 8.5 | 9 46 53.26 | | 18 49 9.4 | | 8.22359 | | 15 40.6 |
| | | 25 58.96 | | 2 27 27.3 | | 193 | |
| 9.0 | 10 12 52.22 | | 16 21 42.1 | | 8.22166 | | 15 36.4 |
| | | 25 6.87 | | 2 37 48.1 | | 192 | |
| 9.5 | 10 37 59.09 | | 13 43 54.0 | | 8.21974 | | 15 32.3 |
| | | 24 21.07 | | 2 45 46.6 | | 190 | |
| 10.0 | 11 2 20.16 | | 10 58 7.4 | | 8.21784 | | 15 28.2 |
| | | 23 42.34 | | 2 51 31.8 | | 190 | |
| 10.5 | 11 26 2.50 | | 8 6 35.6 | | 8.21594 | | 15 24.2 |
| | | 23 11.09 | | −2 55 13.0 | | −187 | |
| 11.0 | 11 49 13.59 | | +5 11 22.6 | | 8.21407 | | 15 20.2 |
| | | 22 47.39 | | 2 56 58.5 | | 186 | |
| 11.5 | 12 12 0.98 | | +2 14 24.1 | | 8.21221 | | 15 16.3 |
| | | 22 31.20 | | 2 56 55.2 | | 182 | |
| 12.0 | 12 34 32.18 | | −0 42 31.1 | | 8.21039 | | 15 12.5 |
| | | 22 22.29 | | 2 55 9.5 | | 177 | |
| 12.5 | 12 56 54.47 | | 3 37 40.6 | | 8.20862 | | 15 8.8 |
| | | 22 20.36 | | 2 51 45.7 | | 172 | |
| 13.0 | 13 19 14.83 | | 6 29 26.3 | | 8.20690 | | 15 5.1 |
| | | 22 24.98 | | 2 46 48.2 | | 165 | |
| 13.5 | 13 41 39.81 | | 9 16 14.5 | | 8.20525 | | 15 1.7 |
| | | 22 35.70 | | 2 40 19.5 | | 156 | |
| 14.0 | 14 4 15.51 | | 11 56 34.0 | | 8.20369 | | 14 58.5 |
| | | 22 51.93 | | 2 32 21.9 | | 146 | |
| 14.5 | 14 27 7.44 | | 14 28 55.9 | | 8.20223 | | 14 55.5 |
| | | 23 12.96 | | 2 22 57.3 | | 132 | |
| 15.0 | 14 50 20.40 | | 16 51 53.2 | | 8.20091 | | 14 52.8 |
| | | 23 37.94 | | 2 12 7.5 | | 116 | |
| 15.5 | 15 13 58.34 | | 19 4 0.7 | | 8.19975 | | 14 50.4 |
| | | 24 5.83 | | −1 59 54.5 | | −100 | |
| 16.0 | 15 38 4.17 | | −21 3 55.2 | | 8.19875 | | 14 48.3 |
| | | 24 35.43 | | 1 46 20.9 | | 79 | |
| 16.5 | 16 2 39.60 | | 22 50 16.1 | | 8.19796 | | 14 46.7 |
| | | 25 5.31 | | 1 31 30.8 | | 55 | |
| 17.0 | 16 27 44.91 | | 24 21 46.9 | | 8.19741 | | 14 45.6 |
| | | 25 34.03 | | 1 15 29.7 | | 31 | |
| 17.5 | 16 53 18.94 | | 25 37 16.6 | | 8.19710 | | 14 45.0 |
| | | 26 0.01 | | 0 58 25.0 | | − 4 | |
| 18.0 | 17 19 18.95 | | 26 35 41.6 | | 8.19706 | | 14 44.9 |
| | | 26 21.74 | | 0 40 26.2 | | + 26 | |
| 18.5 | 17 45 40.69 | | 27 16 7.8 | | 8.19732 | | 14 45.4 |
| | | 26 38.01 | | 0 21 45.3 | | 55 | |
| 19.0 | 18 12 18.70 | | 27 37 53.1 | | 8.19787 | | 14 46.5 |
| | | 26 47.91 | | −0 2 35.4 | | 87 | |
| 19.5 | 18 39 6.61 | | 27 40 28.5 | | 8.19874 | | 14 48.3 |
| | | 26 51.03 | | +0 16 48.8 | | 120 | |
| 20.0 | 19 5 57.64 | | 27 23 39.7 | | 8.19994 | | 14 50.8 |
| | | 26 47.48 | | 0 36 12.1 | | 153 | |
| 20.5 | 19 32 45.12 | | 26 47 27.6 | | 8.20147 | | 14 53.9 |
| | | 26 37.92 | | +0 55 20.1 | | +185 | |
| 21.0 | 19 59 23.04 | | −25 52 7.5 | | 8.20332 | | 14 57.7 |
| | | 26 23.47 | | 1 13 58.7 | | 216 | |
| 21.5 | 20 25 46.51 | | 24 38 8.8 | | 8.20548 | | 15 2.2 |
| | | 26 5.57 | | 1 31 56.5 | | 245 | |
| 22.0 | 20 51 52.08 | | 23 6 12.3 | | 8.20793 | | 15 7.3 |
| | | 25 45.85 | | 1 49 2.8 | | 272 | |
| 22.5 | 21 17 37.93 | | 21 17 9.5 | | 8.21065 | | 15 13.0 |
| | | 25 26.01 | | 2 5 8.2 | | 296 | |
| 23.0 | 21 43 3.94 | | 19 12 1.3 | | 8.21361 | | 15 19.3 |
| | | 25 7.72 | | 2 20 4.4 | | 317 | |
| 23.5 | 22 8 11.66 | | 16 51 56.9 | | 8.21678 | | 15 26.0 |
| | | 24 52.44 | | 2 33 43.3 | | 331 | |
| 24.0 | 22 33 4.10 | | 14 18 13.6 | | 8.22009 | | 15 33.1 |
| | | 24 41.56 | | 2 45 56.6 | | 341 | |
| 24.5 | 22 57 45.66 | | 11 32 17.0 | | 8.22350 | | 15 40.4 |
| | | 24 36.22 | | 2 56 34.9 | | 343 | |
| 25.0 | 23 22 21.88 | | 8 35 42.1 | | 8.22693 | | 15 47.9 |
| | | 24 37.41 | | 3 5 26.9 | | 340 | |
| 25.5 | 23 46 59.29 | | 5 30 15.2 | | 8.23033 | | 15 55.3 |

April 13 3ʰ 30ᵐ.2 Vollmond. April 21 7ʰ 29ᵐ.3 Letztes Viertel.

Im Meridian von Berlin.

| Datum und Kulmination | | Mittlere Zeit | AR. | Halbe Durchg.-D. Sternzeit | Bew. in 1h Länge | Dekl. | Bew. in 1h Länge | Vergl.-Sterne AR. | Vergl.-Sterne Dekl. | Vergl.-Sterne Gr. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | h m | h m s | s | s | ° ′ | ′ | h m | ° ′ | |
| April 6 | O | 6 44.2 | 7 39 48 | −74.76 | 159.90 | +26 31.8 | − 5.1 | 7 5.9 | +27 0 | 5.6 |
| | U | 19 13.7 | 8 11 18 | −73.56 | 155.10 | +25 18.2 | − 7.2 | 7 10.4 | +28 3 | 5.9 |
| 7 | O | 7 42.1 | 8 41 46 | −72.18 | 149.68 | +23 41.2 | − 9.0 | 8 5.1 | +25 47 | 5.9 |
| | U | 20 9.4 | 9 11 7 | −70.72 | 144.01 | +21 43.7 | −10.6 | 8 15.3 | +24 18 | 5.9 |
| 8 | O | 8 35.6 | 9 39 20 | −69.27 | 138.46 | +19 28.8 | −11.9 | 9 4.3 | +22 24 | 5.2 |
| | U | 21 0.7 | 10 6 29 | −67.88 | 133.26 | +16 59.5 | −13.0 | 9 8.6 | +21 39 | 6.1 |
| 9 | O | 9 24.8 | 10 32 38 | −66.61 | 128.58 | +14 18.7 | −13.8 | 10 2.5 | +17 12 | 3.6 |
| | U | 21 48.1 | 10 57 56 | −65.49 | 124.55 | +11 29.0 | −14.4 | 10 11.4 | +18 11 | 6.5 |
| 10 | O | 10 10.6 | 11 22 29 | −64.55 | 121.21 | + 8 33.0 | −14.9 | 10 59.9 | +13 9 | 6.7 |
| | U | 22 32.5 | 11 46 26 | −63.80 | 118.59 | + 5 32.8 | −15.1 | 11 9.4 | + 8 33 | 5.8 |
| 11 | O | 10 54.0 | 12 9 56 | −63.25 | 116.68 | + 2 30.7 | −15.2 | 11 41.3 | + 7 2 | 4.2 |
| | U | 23 15.1 | 12 33 8 | −62.91 | 115.47 | − 0 31.5 | −15.1 | 11 55.4 | + 4 9 | 5.2 |
| 12 | O | 11 36.1 | 12 56 10 | −62.75 | 114.94 | − 3 31.9 | −14.9 | 12 37.2 | − 0 58 | 2.9 |
| | U | 23 57.1 | 13 19 9 | −62.78 | 115.05 | − 6 28.8 | −14.5 | 12 48.7 | − 3 4 | 6.1 |
| 13 | O | 12 18.2 | 13 42 14 | +62.98 | 115.81 | − 9 20.4 | −14.0 | 13 19.9 | − 4 42 | 5.7 |
| — | | — | — | — | — | — | — | 13 25.8 | − 6 1 | 6.1 |
| 14 | U | 0 39.4 | 14 5 30 | +63.34 | 117.07 | −12 5.1 | −13.4 | 14 4.3 | − 9 55 | 6.5 |
| | O | 13 0.9 | 14 29 4 | +63.85 | 118.83 | −14 41.4 | −12.6 | 14 14.3 | −12 58 | 4.5 |
| 15 | U | 1 22.8 | 14 53 2 | +64.46 | 120.99 | −17 7.7 | −11.7 | 14 46.0 | −15 40 | 2.9 |
| | O | 13 45.2 | 15 17 28 | +65.16 | 123.47 | −19 22.3 | −10.7 | 15 1.9 | −16 8 | 6.5 |
| 16 | U | 2 8.1 | 15 42 25 | +65.92 | 126.15 | −21 23.9 | − 9.5 | 15 36.8 | −19 23 | 5.0 |
| | O | 14 31.6 | 16 7 54 | +66.70 | 128.91 | −23 10.8 | − 8.3 | 15 48.7 | −23 43 | 5.3 |
| 17 | U | 2 55.6 | 16 33 56 | +67.45 | 131.61 | −24 41.7 | − 6.9 | 16 24.8 | −24 55 | 4.8 |
| | O | 15 20.1 | 17 0 30 | +68.14 | 134.08 | −25 55.3 | − 5.4 | 16 36.2 | −24 18 | 6.1 |
| 18 | U | 3 45.1 | 17 27 32 | +68.73 | 136.17 | −26 50.3 | − 3.8 | 17 26.2 | −26 12 | 6.0 |
| | O | 16 10.5 | 17 54 55 | +69.19 | 137.76 | −27 25.9 | − 2.1 | 17 37.7 | −27 51 | 6.3 |
| 19 | U | 4 36.1 | 18 22 34 | +69.48 | 138.75 | −27 41.2 | − 0.4 | 18 23.4 | −26 38 | 6.5 |
| | O | 17 1.8 | 18 50 22 | +69.60 | 139.08 | −27 35.8 | + 1.3 | 18 40.1 | −27 5 | 3.3 |
| 20 | U | 5 27.6 | 19 18 10 | +69.54 | 138.78 | −27 9.6 | + 3.1 | 19 19.0 | −28 2 | 5.9 |
| | O | 17 53.2 | 19 45 51 | +69.32 | 137.88 | −26 22.7 | + 4.8 | 19 24.4 | −27 10 | 5.7 |
| 21 | U | 6 18.6 | 20 13 18 | +68.97 | 136.52 | −25 15.5 | + 6.4 | 20 27.6 | −25 15 | 6.2 |
| | O | 18 43.7 | 20 40 27 | +68.52 | 134.84 | −23 48.7 | + 8.0 | 20 32.6 | −25 25 | 6.3 |
| 22 | U | 7 8.5 | 21 7 15 | +68.03 | 133.00 | −22 3.3 | + 9.5 | 21 4.5 | −20 55 | 6.1 |
| | O | 19 32.9 | 21 33 40 | +67.53 | 131.18 | −20 0.2 | +11.0 | 21 10.6 | −21 1 | 5.3 |
| 23 | U | 7 56.9 | 21 59 45 | +67.07 | 129.53 | −17 40.8 | +12.3 | 21 57.6 | −17 24 | 6.5 |
| | O | 20 20.7 | 22 25 31 | +66.68 | 128.19 | −15 6.4 | +13.5 | 22 19.7 | −13 59 | 5.9 |
| 24 | U | 8 44.2 | 22 51 3 | +66.40 | 127.29 | −12 18.5 | +14.5 | | | |
| | O | 21 7.6 | 23 16 28 | +66.28 | 126.95 | − 9 18.9 | +15.4 | | | |
| 25 | U | 9 31.0 | 23 41 53 | +66.33 | 127.25 | − 6 9.3 | +16.2 | | | |
| | O | 21 54.5 | 0 7 25 | +66.56 | 128.27 | − 2 51.9 | +16.7 | | | |

April 17 20h Apogäum.

## Mittlerer Mittag und Mitternacht.

| Datum | Wahre AR. | Diff. | Wahre Dekl. | Diff. | Log. sin. A. H. Par. | Diff. | Halbm. |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ° ′ ″ | | | ′ ″ |
| April 25.0 | 23 22 21.88 | 24 37.41 | − 8 35 42.1 | +3 5 26.9 | 8.22693 | +340 | 15 47.9 |
| 25.5 | 23 46 59.29 | 24 45.93 | 5 30 15.2 | 3 12 19.6 | 8.23033 | 328 | 15 55.3 |
| 26.0 | 0 11 45.22 | 25 2.42 | − 2 17 55.6 | 3 16 58.2 | 8.23361 | 311 | 16 2.6 |
| 26.5 | 0 36 47.64 | 25 27.28 | + 0 59 2.6 | 3 19 6.1 | 8.23672 | 284 | 16 9.5 |
| 27.0 | 1 2 14.92 | 26 0.63 | 4 18 8.7 | 3 18 25.0 | 8.23956 | 251 | 16 15.8 |
| 27.5 | 1 28 15.55 | 26 42.24 | 7 36 33.7 | 3 14 37.1 | 8.24207 | 211 | 16 21.5 |
| 28.0 | 1 54 57.79 | 27 31.40 | 10 51 10.8 | 3 7 25.9 | 8.24418 | 167 | 16 26.3 |
| 28.5 | 2 22 29.19 | 28 26.63 | 13 58 36.7 | 2 56 37.1 | 8.24585 | 118 | 16 30.1 |
| 29.0 | 2 50 55.82 | 29 25.63 | 16 55 13.8 | 2 42 4.0 | 8.24703 | 68 | 16 32.8 |
| 29.5 | 3 20 21.45 | 30 25.23 | 19 37 17.8 | +2 23 46.6 | 8.24771 | + 16 | 16 34.3 |
| 30.0 | 3 50 46.68 | 31 21.20 | +22 1 4.4 | 2 1 57.5 | 8.24787 | − 34 | 16 34.7 |
| 30.5 | 4 22 7.88 | 32 8.76 | 24 3 1.9 | 1 37 2.4 | 8.24753 | 82 | 16 33.9 |
| Mai 1.0 | 4 54 16.64 | 32 43.09 | 25 40 4.3 | 1 9 41.9 | 8.24671 | 126 | 16 32.0 |
| 1.5 | 5 26 59.73 | 33 0.16 | 26 49 46.2 | 0 40 48.5 | 8.24545 | 164 | 16 29.2 |
| 2.0 | 5 59 59.89 | 32 57.52 | 27 30 34.7 | +0 11 23.4 | 8.24381 | 198 | 16 25.5 |
| 2.5 | 6 32 57.41 | 32 34.93 | 27 41 58.1 | −0 17 31.1 | 8.24183 | 224 | 16 21.0 |
| 3.0 | 7 5 32.34 | 31 54.38 | 27 24 27.0 | 0 44 58.7 | 8.23959 | 246 | 16 15.9 |
| 3.5 | 7 37 26.72 | 30 59.57 | 26 39 28.3 | 1 10 14.2 | 8.23713 | 261 | 16 10.4 |
| 4.0 | 8 8 26.29 | 29 55.25 | 25 29 14.1 | 1 32 47.6 | 8.23452 | 269 | 16 4.6 |
| 4.5 | 8 38 21.54 | 28 46.22 | 23 56 26.5 | −1 52 23.2 | 8.23183 | −274 | 15 58.6 |
| 5.0 | 9 7 7.76 | 27 36.75 | +22 4 3.3 | 2 8 57.8 | 8.22909 | 274 | 15 52.6 |
| 5.5 | 9 34 44.51 | 26 30.30 | 19 55 5.5 | 2 22 38.0 | 8.22635 | 269 | 15 46.6 |
| 6.0 | 10 1 14.81 | 25 29.27 | 17 32 27.5 | 2 33 34.6 | 8.22366 | 262 | 15 40.8 |
| 6.5 | 10 26 44.08 | 24 35.35 | 14 58 52.9 | 2 42 1.7 | 8.22104 | 254 | 15 35.1 |
| 7.0 | 10 51 19.43 | 23 49.43 | 12 16 51.2 | 2 48 13.4 | 8.21850 | 242 | 15 29.7 |
| 7.5 | 11 15 8.86 | 23 11.92 | 9 28 37.8 | 2 52 23.2 | 8.21608 | 229 | 15 24.5 |
| 8.0 | 11 38 20.78 | 22 42.91 | 6 36 14.6 | 2 54 41.9 | 8.21379 | 217 | 15 19.6 |
| 8.5 | 12 1 3.69 | 22 22.21 | 3 41 32.7 | 2 55 18.5 | 8.21162 | 204 | 15 15.0 |
| 9.0 | 12 23 25.90 | 22 9.59 | + 0 46 14.2 | 2 54 19.8 | 8.20958 | 190 | 15 10.7 |
| 9.5 | 12 45 35.49 | 22 4.61 | − 2 8 5.6 | −2 51 50.3 | 8.20768 | −176 | 15 6.8 |
| 10.0 | 13 7 40.10 | 22 6.88 | − 4 59 55.9 | 2 47 53.4 | 8.20592 | 163 | 15 3.1 |
| 10.5 | 13 29 46.98 | 22 15.87 | 7 47 49.3 | 2 42 29.5 | 8.20429 | 149 | 14 59.7 |
| 11.0 | 13 52 2.85 | 22 30.96 | 10 30 18.8 | 2 35 40.2 | 8.20280 | 136 | 14 56.6 |
| 11.5 | 14 14 33.81 | 22 51.44 | 13 5 59.0 | 2 27 24.4 | 8.20144 | 121 | 14 53.8 |
| 12.0 | 14 37 25.25 | 23 16.51 | 15 33 23.4 | 2 17 41.7 | 8.20023 | 108 | 14 51.4 |
| 12.5 | 15 0 41.76 | 23 45.06 | 17 51 5.1 | 2 6 32.4 | 8.19915 | 92 | 14 49.2 |
| 13.0 | 15 24 26.82 | 24 15.85 | 19 57 37.5 | 1 53 56.8 | 8.19823 | 77 | 14 47.3 |
| 13.5 | 15 48 42.67 | 24 47.49 | 21 51 34.3 | 1 39 57.9 | 8.19746 | 60 | 14 45.7 |
| 14.0 | 16 13 30.16 | 25 18.31 | 23 31 32.2 | 1 24 39.9 | 8.19686 | 43 | 14 44.5 |
| 14.5 | 16 38 48.47 | | 24 56 12.1 | | 8.19643 | | 14 43.6 |

April 28 11ʰ 18ᵐ.6 Neumond. Mai 5 2ʰ 7ᵐ.3 Erst. Viert. Mai 12 19ʰ 3ᵐ.3 Vollmond.

Im Meridian von Berlin.

| Datum und Kulmination | Mittlere Zeit | AR. | Halbe Durchg.-D. Sternzeit | Bew. in 1h Länge | Dekl. | Bew. in 1h Länge | Vergl.-Sterne AR. | Vergl.-Sterne Dekl. | Gr. |
|---|---|---|---|---|---|---|---|---|---|
| | h m | h m s | s | s | ° ′ | ′ | | | |
| April 25 *U* | 9 31.0 | 23 41 53 | +66.33 | 127.25 | − 6 9.3 | +16.2 | | | |
| *O* | 21 54.5 | 0 7 25 | +66.56 | 128.27 | − 2 51.9 | +16.7 | | | |
| 26 *U* | 10 18.2 | 0 33 14 | +67.01 | 130.07 | + 0 31.0 | +17.1 | | | |
| *O* | 22 42.4 | 0 59 29 | +67.68 | 132.68 | + 3 56.7 | +17.2 | | | |
| 27 *U* | 11 7.2 | 1 26 20 | +68.56 | 136.11 | + 7 22.1 | +17.0 | | | |
| *O* | 23 32.8 | 1 53 56 | +69.64 | 140.32 | +10 43.9 | +16.6 | | | |
| 28 *U* | 11 59.3 | 2 22 27 | −70.89 | 144.99 | +13 58.4 | +15.8 | | | |
| — | — | — | — | — | — | — | | | |
| 29 *O* | 0 26.8 | 2 52 0 | −72.24 | 150.37 | +17 1.5 | +14.7 | | | |
| *U* | 12 55.4 | 3 22 40 | −73.64 | 156.00 | +19 49.0 | +13.2 | | | |
| 30 *O* | 1 25.1 | 3 54 26 | −75.00 | 161.50 | +22 16.7 | +11.4 | | | |
| *U* | 13 55.9 | 4 27 15 | −76.20 | 166.38 | +24 20.4 | + 9.2 | | | |
| Mai 1 *O* | 2 27.5 | 5 0 56 | −77.12 | 170.13 | +25 56.6 | + 6.8 | | | |
| *U* | 14 59.7 | 5 35 13 | −77.65 | 172.27 | +27 2.7 | + 4.2 | | | |
| 2 *O* | 3 32.2 | 6 9 44 | −77.72 | 172.49 | +27 37.0 | + 1.5 | | | |
| *U* | 16 4.5 | 6 44 5 | −77.33 | 170.70 | +27 39.2 | − 1.2 | h m | ° ′ | |
| 3 *O* | 4 36.2 | 7 17 52 | −76.49 | 167.08 | +27 10.3 | − 3.7 | 6 39.1 | +29 4 | 5.5 |
| *U* | 17 7.0 | 7 50 47 | −75.28 | 162.00 | +26 12.5 | − 6.0 | 6 53.3 | +26 12 | 6.2 |
| 4 *O* | 5 36.8 | 8 22 35 | −73.82 | 155.97 | +24 48.5 | − 8.0 | 7 48.1 | +27 0 | 4.9 |
| *U* | 18 5.3 | 8 53 6 | −72.21 | 149.49 | +23 1.7 | − 9.8 | 7 55.5 | +25 38 | 6.1 |
| 5 *O* | 6 32.4 | 9 22 19 | −70.56 | 142.99 | +20 55.6 | −11.2 | 9 2.3 | +23 20 | 6.3 |
| *U* | 18 58.3 | 9 50 16 | −68.96 | 136.83 | +18 33.7 | −12.4 | 9 8.5 | +21 39 | 6.1 |
| 6 *O* | 7 23.1 | 10 17 3 | −67.47 | 131.23 | +15 59.1 | −13.3 | 9 39.6 | +19 16 | 6.5 |
| *U* | 19 46.8 | 10 42 46 | −66.14 | 126.34 | +13 14.7 | −14.0 | 10 0.9 | +16 11 | 6.3 |
| 7 *O* | 8 9.6 | 11 7 36 | −65.00 | 122.24 | +10 23.0 | −14.5 | 10 27.5 | +14 36 | 5.8 |
| *U* | 20 31.6 | 11 31 41 | −64.07 | 118.94 | + 7 26.4 | −14.9 | 10 41.7 | +14 40 | 5.5 |
| 8 *O* | 8 53.1 | 11 55 12 | −63.35 | 116.45 | + 4 27.0 | −15.0 | 11 33.9 | + 8 38 | 5.4 |
| *U* | 21 14.2 | 12 18 18 | −62.84 | 114.74 | + 1 26.6 | −15.0 | 11 41.3 | + 7 2 | 4.2 |
| 9 *O* | 9 35.0 | 12 41 8 | −62.53 | 113.78 | − 1 33.1 | −14.9 | 12 5.1 | + 2 24 | 6.2 |
| *U* | 21 55.7 | 13 3 51 | −62.43 | 113.52 | − 4 30.5 | −14.6 | 12 14.1 | − 0 18 | 5.9 |
| 10 *O* | 10 16.4 | 13 26 36 | −62.53 | 113.93 | − 7 24.0 | −14.2 | 12 59.3 | − 3 11 | 6.5 |
| *U* | 22 37.2 | 13 49 29 | −62.80 | 114.95 | −10 12.0 | −13.7 | 13 5.4 | − 5 4 | 4.4 |
| 11 *O* | 10 58.3 | 14 12 37 | −63.22 | 116.53 | −12 53.0 | −13.1 | 13 42.5 | − 9 16 | 6.2 |
| *U* | 23 19.8 | 14 36 8 | −63.79 | 118.59 | −15 25.4 | −12.3 | 14 4.3 | − 9 55 | 6.5 |
| 12 *O* | 11 41.8 | 15 0 6 | −64.46 | 121.03 | −17 47.7 | −11.4 | 14 32.3 | −11 56 | 6.2 |
| — | — | — | — | — | — | — | 14 45.8 | −15 38 | 5.4 |
| 13 *U* | 0 4.2 | 15 24 35 | +65.21 | 123.89 | −19 58.3 | −10.4 | 15 27.5 | −19 22 | 5.4 |
| *O* | 12 27.2 | 15 49 38 | +65.99 | 126.78 | −21 55.6 | − 9.2 | 15 33.1 | −20 43 | 5.9 |
| 14 *U* | 0 50.8 | 16 15 16 | +66.78 | 129.68 | −23 38.0 | − 7.9 | 16 15.8 | −25 23 | 3.1 |
| *O* | 13 15.0 | 16 41 28 | +67.53 | 132.41 | −25 4.1 | − 6.5 | 16 20.3 | −23 15 | 4.7 |

April 29 $22^h$ Perigäum.

## Mittlerer Mittag und Mitternacht.

| Datum | Wahre AR. | Diff. | Wahre Dekl. | Diff. | Log. sin. A. H. Par. | Diff. | Halbm. |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ° ′ ″ | | | ′ ″ |
| Mai 14.0 | 16 13 30.16 | 25 18.31 | −23 31 32.2 | −1 24 39.9 | 8.19686 | − 43 | 14 44.5 |
| 14.5 | 16 38 48.47 | 25 46.64 | 24 56 12.1 | 1 8 9.8 | 8.19643 | 23 | 14 43.6 |
| 15.0 | 17 4 35.11 | 26 10.81 | 26 4 21.9 | 0 50 37.7 | 8.19620 | − 3 | 14 43.1 |
| 15.5 | 17 30 45.92 | 26 29.31 | 26 54 59.6 | 0 32 16.2 | 8.19617 | + 19 | 14 43.1 |
| 16.0 | 17 57 15.23 | 26 40.99 | 27 27 15.8 | −0 13 19.7 | 8.19636 | 42 | 14 43.5 |
| 16.5 | 18 23 56.22 | 26 45.24 | 27 40 35.5 | +0 5 54.0 | 8.19678 | 68 | 14 44.3 |
| 17.0 | 18 50 41.46 | 26 42.03 | 27 34 41.5 | 0 25 8.6 | 8.19746 | 94 | 14 45.7 |
| 17.5 | 19 17 23.49 | 26 31.87 | 27 9 32.9 | 0 44 8.0 | 8.19840 | 122 | 14 47.6 |
| 18.0 | 19 43 55.36 | 26 15.89 | 26 25 24.9 | 1 2 36.0 | 8.19962 | 150 | 14 50.1 |
| 18.5 | 20 10 11.25 | | 25 22 48.9 | | 8.20112 | | 14 53.2 |
| | | 25 55.61 | | +1 20 21.1 | | +178 | |
| 19.0 | 20 36 6.86 | 25 32.75 | −24 2 27.8 | 1 37 12.5 | 8.20290 | 207 | 14 56.9 |
| 19.5 | 21 1 39.61 | 25 9.13 | 22 25 15.3 | 1 53 3.3 | 8.20497 | 236 | 15 1.1 |
| 20.0 | 21 26 48.74 | 24 46.53 | 20 32 12.0 | 2 7 47.0 | 8.20733 | 262 | 15 6.0 |
| 20.5 | 21 51 35.27 | 24 26.60 | 18 24 25.0 | 2 21 19.8 | 8.20995 | 288 | 15 11.5 |
| 21.0 | 22 16 1.87 | 24 10.81 | 16 3 5.2 | 2 33 38.1 | 8.21283 | 310 | 15 17.6 |
| 21.5 | 22 40 12.68 | 24 0.38 | 13 29 27.1 | 2 44 37.2 | 8.21593 | 329 | 15 24.2 |
| 22.0 | 23 4 13.06 | 23 56.46 | 10 44 49.9 | 2 54 11.2 | 8.21922 | 344 | 15 31.2 |
| 22.5 | 23 28 9.52 | 23 59.92 | 7 50 38.7 | 3 2 12.6 | 8.22266 | 353 | 15 38.6 |
| 23.0 | 23 52 9.44 | 24 11.57 | 4 48 26.1 | 3 8 31.5 | 8.22619 | 357 | 15 46.3 |
| 23.5 | 0 16 21.01 | | − 1 39 54.6 | | 8.22976 | | 15 54.1 |
| | | 24 32.02 | | +3 12 54.1 | | +353 | |
| 24.0 | 0 40 53.03 | 25 1.76 | + 1 32 59.5 | 3 15 3.8 | 8.23329 | 342 | 16 1.9 |
| 24.5 | 1 5 54.79 | 25 40.99 | 4 48 3.3 | 3 14 41.4 | 8.23671 | 323 | 16 9.5 |
| 25.0 | 1 31 35.78 | 26 29.53 | 8 2 44.7 | 3 11 24.7 | 8.23994 | 297 | 16 16.7 |
| 25.5 | 1 58 5.31 | 27 26.79 | 11 14 9.4 | 3 4 51.1 | 8.24291 | 261 | 16 23.4 |
| 26.0 | 2 25 32.10 | 28 31.26 | 14 19 0.5 | 2 54 39.4 | 8.24552 | 219 | 16 29.3 |
| 26.5 | 2 54 3.36 | 29 40.51 | 17 13 39.9 | 2 40 32.8 | 8.24771 | 169 | 16 34.3 |
| 27.0 | 3 23 43.87 | 30 50.94 | 19 54 12.7 | 2 22 23.5 | 8.24940 | 116 | 16 38.2 |
| 27.5 | 3 54 34.81 | 31 57.65 | 22 16 36.2 | 2 0 16.4 | 8.25056 | 59 | 16 40.9 |
| 28.0 | 4 26 32.46 | 32 54.90 | 24 16 52.6 | 1 34 34.3 | 8.25115 | + 1 | 16 42.2 |
| 28.5 | 4 59 27.36 | | 25 51 26.9 | | 8.25116 | | 16 42.2 |
| | | 33 36.76 | | +1 5 59.5 | | − 58 | |
| 29.0 | 5 33 4.12 | 33 58.23 | +26 57 26.4 | 0 35 32.0 | 8.25058 | 112 | 16 40.9 |
| 29.5 | 6 7 2.35 | 33 56.22 | 27 32 58.4 | +0 4 24.4 | 8.24946 | 164 | 16 38.3 |
| 30.0 | 6 40 58.57 | 33 30.55 | 27 37 22.8 | −0 26 6.7 | 8.24782 | 211 | 16 34.6 |
| 30.5 | 7 14 29.12 | 32 43.93 | 27 11 16.1 | 0 54 51.9 | 8.24571 | 249 | 16 29.8 |
| 31.0 | 7 47 13.05 | 31 41.02 | 26 16 24.2 | 1 20 57.4 | 8.24322 | 281 | 16 24.2 |
| 31.5 | 8 18 54.07 | 30 27.80 | 24 55 26.8 | 1 43 48.1 | 8.24041 | 305 | 16 17.8 |
| Juni 1.0 | 8 49 21.87 | 29 10.06 | 23 11 38.7 | 2 3 9.1 | 8.23736 | 321 | 16 10.9 |
| 1.5 | 9 18 31.93 | 27 52.78 | 21 8 29.6 | 2 19 1.1 | 8.23415 | 331 | 16 3.8 |
| 2.0 | 9 46 24.71 | 26 39.75 | 18 49 28.5 | 2 31 35.2 | 8.23084 | 333 | 15 56.5 |
| 2.5 | 10 13 4.46 | | 16 17 53.3 | | 8.22751 | | 15 49.2 |

Mai 20 22h 16.5m Letztes Viertel. Mai 27 19h 18.0m Neumond.

## Im Meridian von Berlin.

| Datum und Kulmination | | | Mittlere Zeit | AR. | Halbe Durchg.-D. Sternzeit | Bew. in 1h Länge | Dekl. | Bew. in 1h Länge | Vergl.-Sterne AR. | Vergl.-Sterne Dekl. | Vergl.-Sterne Gr. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | h m | h m s | s | s | ° ′ | ′ | h m | ° ′ | |
| Mai | 14 | U | 0 50.8 | 16 15 16 | +66.78 | 129.68 | −23 38.0 | − 7.9 | 16 15.8 | −25 23 | 3.1 |
| | | O | 13 15.0 | 16 41 28 | +67.53 | 132.41 | −25 4.1 | − 6.5 | 16 20.3 | −23 15 | 4.7 |
| | 15 | U | 1 39.7 | 17 8 11 | +68.19 | 134.80 | −26 12.4 | − 4.9 | 17 9.9 | −26 28 | 5.4 |
| | | O | 14 4.8 | 17 35 20 | +68.72 | 136.70 | −27 1.9 | − 3.3 | 17 16.6 | −24 55 | 3.4 |
| | 16 | U | 2 30.2 | 18 2 49 | +69.09 | 137.98 | −27 31.6 | − 1.6 | 18 6.3 | −28 55 | 6.4 |
| | | O | 14 55.8 | 18 30 28 | +69.28 | 138.55 | −27 40.9 | + 0.1 | 18 11.8 | −28 19 | 6.3 |
| | 17 | U | 3 21.5 | 18 58 10 | +69.28 | 138.39 | −27 29.6 | + 1.8 | 19 1.4 | −27 48 | 3.5 |
| | | O | 15 47.1 | 19 25 47 | +69.10 | 137.54 | −26 57.7 | + 3.5 | 19 7.8 | −26 3 | 5.9 |
| | 18 | U | 4 12.4 | 19 53 10 | +68.77 | 136.12 | −26 5.5 | + 5.2 | 19 50.4 | −26 32 | 4.8 |
| | | O | 16 37.4 | 20 20 13 | +68.32 | 134.28 | −24 53.9 | + 6.8 | 19 53.6 | −26 26 | 4.9 |
| | 19 | U | 5 2.0 | 20 46 52 | +67.78 | 132.17 | −23 23.7 | + 8.3 | 20 47.8 | −24 7 | 6.2 |
| | | O | 17 26.2 | 21 13 6 | +67.21 | 129.98 | −21 35.9 | + 9.7 | 21 3.5 | −21 33 | 5.3 |
| | 20 | U | 5 50.0 | 21 38 54 | +66.66 | 127.90 | −19 31.9 | +11.0 | 21 38.3 | −20 2 | 6.1 |
| | | O | 18 13.4 | 22 4 18 | +66.17 | 126.07 | −17 12.8 | +12.2 | 21 45.3 | −17 16 | 6.5 |
| | 21 | U | 6 36.4 | 22 29 22 | +65.78 | 124.63 | −14 39.9 | +13.3 | 22 25.5 | −15 2 | 6.1 |
| | | O | 18 59.2 | 22 54 12 | +65.52 | 123.72 | −11 54.8 | +14.2 | 22 43.0 | −14 32 | 5.6 |
| | 22 | U | 7 21.9 | 23 18 55 | +65.43 | 123.44 | − 8 59.0 | +15.1 | 23 14.3 | −10 6 | 5.2 |
| | | O | 19 44.6 | 23 43 38 | +65.52 | 123.87 | − 5 53.9 | +15.8 | 23 24.4 | − 9 45 | 6.3 |
| | 23 | U | 8 7.4 | 0 8 30 | +65.82 | 125.08 | − 2 41.4 | +16.3 | 0 3.6 | − 2 57 | 6.3 |
| | | O | 20 30.6 | 0 33 42 | +66.35 | 127.14 | + 0 36.5 | +16.7 | 0 19.9 | − 2 43 | 6.3 |
| | 24 | U | 8 54.2 | 0 59 24 | +67.11 | 130.10 | + 3 57.6 | +16.8 | | | |
| | | O | 21 18.5 | 1 25 46 | +68.10 | 133.97 | + 7 19.3 | +16.7 | | | |
| | 25 | U | 9 43.7 | 1 53 0 | +69.31 | 138.74 | +10 38.3 | +16.4 | | | |
| | | O | 22 10.0 | 2 21 16 | +70.72 | 144.33 | +13 51.3 | +15.7 | | | |
| | 26 | U | 10 37.4 | 2 50 43 | +72.27 | 150.58 | +16 54.3 | +14.7 | | | |
| | | O | 23 6.1 | 3 21 28 | +73.88 | 157.20 | +19 42.8 | +13.3 | | | |
| | 27 | U | 11 36.1 | 3 53 32 | +75.47 | 163.77 | +22 12.2 | +11.5 | | | |
| | | — | — | — | — | — | — | — | | | |
| | 28 | O | 0 7.4 | 4 26 52 | −76.90 | 169.53 | +24 18.0 | + 9.4 | | | |
| | | U | 12 39.8 | 5 1 18 | −78.03 | 174.30 | +25 55.9 | + 6.9 | | | |
| | 29 | O | 1 12.9 | 5 36 30 | −78.73 | 177.27 | +27 2.5 | + 4.2 | | | |
| | | U | 13 46.4 | 6 12 4 | −78.90 | 177.98 | +27 35.6 | + 1.3 | | | |
| | 30 | O | 2 19.8 | 6 47 32 | −78.53 | 176.28 | +27 34.7 | − 1.5 | | | |
| | | U | 14 52.6 | 7 22 25 | −77.64 | 172.37 | +27 0.7 | − 4.2 | | | |
| | 31 | O | 3 24.4 | 7 56 20 | −76.32 | 166.72 | +25 55.9 | − 6.6 | | | |
| | | U | 15 55.0 | 8 28 59 | −74.71 | 159.93 | +24 23.8 | − 8.7 | | | |
| Juni | 1 | O | 4 24.2 | 9 0 13 | −72.94 | 152.63 | +22 28.5 | −10.5 | 8 23.3 | +24 26 | 6.1 |
| | | U | 16 51.9 | 9 29 59 | −71.13 | 145.37 | +20 13.8 | −11.9 | 8 27.7 | +24 23 | 6.4 |
| | 2 | O | 5 18.3 | 9 58 20 | −69.39 | 138.51 | +17 43.8 | −13.0 | 9 33.9 | +20 42 | 6.7 |
| | | U | 17 43.3 | 10 25 23 | −67.79 | 132.33 | +15 2.1 | −13.9 | 9 39.6 | +19 16 | 6.5 |

Mai 15 $8^h$ Apogäum. Mai 28 $6^h$ Perigäum.

## Mittlerer Mittag und Mitternacht.

| Datum | | Wahre AR. | Diff. | Wahre Dekl. | Diff. | Log. sin. A. H. Par. | Diff. | Halbm. |
|---|---|---|---|---|---|---|---|---|
| | | h m s | m s | ° ′ ″ | ° ′ ″ | | | ′ ″ |
| Juni | 2.0 | 9 46 24.71 | 26 39.75 | +18 49 28.5 | −2 31 35.2 | 8.23084 | −333 | 15 56.5 |
| | 2.5 | 10 13 4.46 | 25 33.56 | 16 17 53.3 | 2 41 9.9 | 8.22751 | 330 | 15 49.2 |
| | 3.0 | 10 38 38.02 | 24 35.80 | 13 36 43.4 | 2 48 5.0 | 8.22421 | 321 | 15 42.0 |
| | 3.5 | 11 3 13.82 | 23 47.27 | 10 48 38.4 | 2 52 40.1 | 8.22100 | 309 | 15 35.0 |
| | 4.0 | 11 27 1.09 | 23 8.16 | 7 55 58.3 | 2 55 12.9 | 8.21791 | 293 | 15 28.4 |
| | 4.5 | 11 50 9.25 | 22 38.47 | 5 0 45.4 | 2 55 58.2 | 8.21498 | 275 | 15 22.1 |
| | 5.0 | 12 12 47.72 | 22 17.80 | + 2 4 47.2 | 2 55 7.8 | 8.21223 | 255 | 15 16.3 |
| | 5.5 | 12 35 5.52 | 22 5.81 | − 0 50 20.6 | 2 52 49.6 | 8.20968 | 232 | 15 11.0 |
| | 6.0 | 12 57 11.33 | 22 1.97 | 3 43 10.2 | 2 49 9.1 | 8.20736 | 211 | 15 6.1 |
| | 6.5 | 13 19 13.30 | 22 5.80 | 6 32 19.3 | −2 44 9.5 | 8.20525 | −188 | 15 1.7 |
| | 7.0 | 13 41 19.10 | 22 16.62 | − 9 16 28.8 | 2 37 51.7 | 8.20337 | 165 | 14 57.8 |
| | 7.5 | 14 3 35.72 | 22 33.81 | 11 54 20.5 | 2 30 15.6 | 8.20172 | 144 | 14 54.4 |
| | 8.0 | 14 26 9.53 | 22 56.51 | 14 24 36.1 | 2 21 19.2 | 8.20028 | 123 | 14 51.5 |
| | 8.5 | 14 49 6.04 | 23 23.75 | 16 45 55.3 | 2 11 0.5 | 8.19905 | 102 | 14 49.0 |
| | 9.0 | 15 12 29.79 | 23 54.35 | 18 56 55.8 | 1 59 18.2 | 8.19803 | 83 | 14 46.9 |
| | 9.5 | 15 36 24.14 | 24 26.83 | 20 56 14.0 | 1 46 12.3 | 8.19720 | 63 | 14 45.2 |
| | 10.0 | 16 0 50.97 | 24 59.68 | 22 42 26.3 | 1 31 44.2 | 8.19657 | 44 | 14 43.9 |
| | 10.5 | 16 25 50.65 | 25 30.99 | 24 14 10.5 | 1 15 57.7 | 8.19613 | 27 | 14 43.0 |
| | 11.0 | 16 51 21.64 | 25 58.91 | 25 30 8.2 | 0 59 1.0 | 8.19586 | − 8 | 14 42.4 |
| | 11.5 | 17 17 20.55 | 26 21.67 | 26 29 9.2 | −0 41 4.5 | 8.19578 | + 9 | 14 42.3 |
| | 12.0 | 17 43 42.22 | 26 37.74 | −27 10 13.7 | 0 22 23.1 | 8.19587 | 28 | 14 42.5 |
| | 12.5 | 18 10 19.96 | 26 46.03 | 27 32 36.8 | −0 3 13.6 | 8.19615 | 46 | 14 43.0 |
| | 13.0 | 18 37 5.99 | 26 46.06 | 27 35 50.4 | +0 16 5.3 | 8.19661 | 65 | 14 44.0 |
| | 13.5 | 19 3 52.05 | 26 38.11 | 27 19 45.1 | 0 35 14.0 | 8.19726 | 84 | 14 45.3 |
| | 14.0 | 19 30 30.16 | 26 22.94 | 26 44 31.1 | 0 53 55.0 | 8.19810 | 105 | 14 47.0 |
| | 14.5 | 19 56 53.10 | 26 1.97 | 25 50 36.1 | 1 11 51.8 | 8.19915 | 125 | 14 49.1 |
| | 15.0 | 20 22 55.07 | 25 37.00 | 24 38 44.3 | 1 28 51.9 | 8.20040 | 148 | 14 51.7 |
| | 15.5 | 20 48 32.07 | 25 9.92 | 23 9 52.4 | 1 44 45.8 | 8.20188 | 169 | 14 54.7 |
| | 16.0 | 21 13 41.99 | 24 42.68 | 21 25 6.6 | 1 59 26.7 | 8.20357 | 192 | 14 58.2 |
| | 16.5 | 21 38 24.67 | 24 17.11 | 19 25 39.9 | +2 12 51.1 | 8.20549 | +215 | 15 2.2 |
| | 17.0 | 22 2 41.78 | 23 54.81 | −17 12 48.8 | 2 24 56.3 | 8.20764 | 237 | 15 6.7 |
| | 17.5 | 22 26 36.59 | 23 37.23 | 14 47 52.5 | 2 35 41.6 | 8.21001 | 259 | 15 11.7 |
| | 18.0 | 22 50 13.82 | 23 25.53 | 12 12 10.9 | 2 45 4.6 | 8.21260 | 279 | 15 17.1 |
| | 18.5 | 23 13 39.35 | 23 20.73 | 9 27 6.3 | 2 53 3.4 | 8.21539 | 297 | 15 23.0 |
| | 19.0 | 23 37 0.08 | 23 23.71 | 6 34 2.9 | 2 59 33.7 | 8.21836 | 313 | 15 29.4 |
| | 19.5 | 0 0 23.79 | 23 35.20 | 3 34 29.2 | 3 4 28.8 | 8.22149 | 325 | 15 36.1 |
| | 20.0 | 0 23 58.99 | 23 55.83 | − 0 30 0.4 | 3 7 38.7 | 8.22474 | 333 | 15 43.1 |
| | 20.5 | 0 47 54.82 | 24 26.08 | + 2 37 38.3 | 3 8 50.6 | 8.22807 | 334 | 15 50.4 |
| | 21.0 | 1 12 20.90 | 25 6.25 | 5 46 28.9 | 3 7 47.8 | 8.23141 | 331 | 15 57.7 |
| | 21.5 | 1 37 27.15 | | 8 54 16.7 | | 8.23472 | | 16 5.0 |

Juni 3 10h 57m.8 Erst. Viert. Juni 11 10h 44m.3 Vollmond. Juni 19 9h 44m.4 Letzt. Viert.

## Im Meridian von Berlin.

| Datum und Kulmination | Mittlere Zeit | AR. | Halbe Durchg.-D. Sternzeit | Bew. in 1h Länge | Dekl. | Bew. in 1h Länge | Vergl.-Sterne AR. | Vergl.-Sterne Dekl. | Vergl.-Sterne Gr. |
|---|---|---|---|---|---|---|---|---|---|
| | h m | h m s | s | s | ° ' | ' | h m | ° ' | |
| Juni 2 O | 5 18.3 | 9 58 20 | −69.39 | 138.51 | +17 43.8 | −13.0 | 9 33.9 | +20 42 | 6.7 |
| U | 17 43.3 | 10 25 23 | −67.79 | 132.33 | +15 2.1 | −13.9 | 9 39.6 | +19 16 | 6.5 |
| 3 O | 6 7.1 | 10 51 17 | −66.37 | 126.99 | +12 11.7 | −14.5 | 10 17.1 | +15 25 | 6.1 |
| U | 18 30.0 | 11 16 12 | −65.16 | 122.54 | + 9 15.5 | −14.9 | 10 27.5 | +14 36 | 5.8 |
| 4 O | 6 52.1 | 11 40 20 | −64.17 | 119.00 | + 6 15.9 | −15.1 | 11 9.4 | + 8 33 | 5.8 |
| U | 19 13.6 | 12 3 50 | −63.42 | 116.34 | + 3 14.8 | −15.1 | 11 19.3 | +11 1 | 4.1 |
| 5 O | 7 34.6 | 12 26 54 | −62.90 | 114.54 | + 0 14.0 | −15.0 | 11 55.4 | + 4 9 | 5.2 |
| U | 19 55.4 | 12 49 42 | −62.60 | 113.54 | − 2 44.8 | −14.8 | 12 5.1 | + 2 24 | 6.2 |
| 6 O | 8 16.0 | 13 12 22 | −62.51 | 113.31 | − 5 40.2 | −14.4 | 12 49.1 | − 3 44 | 6.5 |
| U | 20 36.7 | 13 35 4 | −62.61 | 113.78 | − 8 30.7 | −14.0 | 12 55.1 | − 3 20 | 5.7 |
| 7 O | 8 57.6 | 13 57 56 | −62.90 | 114.90 | −11 15.0 | −13.4 | 13 28.3 | − 9 42 | 5.4 |
| U | 21 18.7 | 14 21 5 | −63.34 | 116.59 | −13 51.7 | −12.7 | 13 37.0 | − 8 15 | 5.3 |
| 8 O | 9 40.2 | 14 44 37 | −63.92 | 118.79 | −16 19.3 | −11.9 | 14 19.9 | −11 16 | 6.5 |
| U | 22 2.2 | 15 8 38 | −64.62 | 121.39 | −18 36.3 | −10.9 | 14 32.3 | −11 56 | 6.2 |
| 9 O | 10 24.7 | 15 33 12 | −65.38 | 124.28 | −20 41.2 | − 9.9 | 15 8.3 | −19 19 | 6.0 |
| U | 22 47.8 | 15 58 22 | −66.17 | 127.30 | −22 32.4 | − 8.7 | 15 15.9 | −17 50 | 6.2 |
| 10 O | 11 11.6 | 16 24 9 | −66.96 | 130.29 | −24 8.5 | − 7.3 | 15 55.1 | −22 22 | 2.5 |
| U | 23 35.9 | 16 50 30 | −67.68 | 133.07 | −25 27.9 | − 5.9 | 16 0.8 | −23 22 | 5.7 |
| 11 O | 12 0.7 | 17 17 22 | +68.30 | 135.55 | −26 29.2 | − 4.3 | 16 36.2 | −24 18 | 6.1 |
| — | — | — | — | — | — | — | 16 54.5 | −24 57 | 6.3 |
| 12 U | 0 26.0 | 17 44 40 | +68.77 | 137.34 | −27 11.4 | − 2.7 | 17 42.9 | −26 57 | 6.2 |
| O | 12 51.5 | 18 12 15 | +69.07 | 138.43 | −27 33.5 | − 1.0 | 17 51.1 | −28 3 | 5.7 |
| 13 U | 1 17.2 | 18 39 58 | +69.17 | 138.73 | −27 35.0 | + 0.7 | 18 40.1 | −27 5 | 3.3 |
| O | 13 42.9 | 19 7 41 | +69.07 | 138.24 | −27 15.9 | + 2.4 | 18 49.8 | −26 24 | 2.1 |
| 14 U | 2 8.4 | 19 35 14 | +68.79 | 137.03 | −26 36.3 | + 4.1 | 19 31.3 | −25 5 | 4.6 |
| O | 14 33.6 | 20 2 28 | +68.35 | 135.22 | −25 36.8 | + 5.8 | 19 50.4 | −26 32 | 4.8 |
| 15 U | 2 58.4 | 20 29 18 | +67.80 | 132.97 | −24 18.3 | + 7.3 | 20 27.6 | −25 15 | 6.2 |
| O | 15 22.7 | 20 55 40 | +67.19 | 130.49 | −22 41.9 | + 8.7 | 20 32.6 | −25 25 | 6.3 |
| 16 U | 3 46.5 | 21 21 31 | +66.55 | 127.96 | −20 49.0 | +10.1 | 21 25.0 | −19 32 | 6.5 |
| O | 16 9.8 | 21 46 53 | +65.93 | 125.57 | −18 41.0 | +11.3 | 21 29.9 | −20 29 | 5.7 |
| 17 U | 4 32.7 | 22 11 48 | +65.38 | 123.48 | −16 19.3 | +12.4 | 21 57.6 | −17 24 | 6.5 |
| O | 16 55.2 | 22 36 19 | +64.95 | 121.83 | −13 45.3 | +13.3 | 22 19.7 | −13 59 | 5.9 |
| 18 U | 5 17.4 | 23 0 34 | +64.66 | 120.72 | −11 0.5 | +14.1 | 22 48.8 | −12 5 | 5.8 |
| O | 17 39.5 | 23 24 40 | +64.54 | 120.27 | − 8 6.4 | +14.8 | 23 10.1 | −11 10 | 6.3 |
| 19 U | 6 1.5 | 23 48 44 | +64.63 | 120.55 | − 5 4.6 | +15.4 | 23 48.4 | − 3 39 | 6.1 |
| O | 18 23.7 | 0 12 56 | +64.92 | 121.64 | − 1 56.7 | +15.9 | 23 54.1 | − 4 3 | 5.0 |
| 20 U | 6 46.2 | 0 37 26 | +65.44 | 123.58 | + 1 15.6 | +16.2 | 0 31.0 | − 1 0 | 5.4 |
| O | 19 9.1 | 1 2 24 | +66.20 | 126.45 | + 4 30.2 | +16.3 | 0 46.7 | + 2 54 | 6.5 |
| 21 U | 7 32.7 | 1 28 2 | +67.20 | 130.28 | + 7 44.8 | +16.2 | 1 25.5 | + 5 41 | 5.0 |
| O | 19 57.1 | 1 54 32 | +68.44 | 135.06 | +10 56.9 | +15.8 | 1 40.7 | + 8 43 | 4.5 |

Juni 11 12h Apogäum.

## Mittlerer Mittag und Mitternacht.

| Datum | Wahre AR. | Diff. | Wahre Dekl. | Diff. | Log. sin. A. H. Par. | Diff. | Halbm. |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ° ′ ″ | | | ′ ″ |
| Juni 21.0 | 1 12 20.90 | 25 6.25 | + 5 46 28.9 | +3 7 47.8 | 8.23141 | +331 | 15 57.7 |
| 21.5 | 1 37 27.15 | 25 56.31 | 8 54 16.7 | 3 4 10.3 | 8.23472 | 321 | 16 5.0 |
| 22.0 | 2 3 23.46 | 26 55.76 | 11 58 27.0 | 2 57 36.2 | 8.23793 | 302 | 16 12.2 |
| 22.5 | 2 30 19.22 | 28 3.38 | 14 56 3.2 | 2 47 42.4 | 8.24095 | 276 | 16 19.0 |
| 23.0 | 2 58 22.60 | 29 16.95 | 17 43 45.6 | 2 34 8.3 | 8.24371 | 244 | 16 25.2 |
| 23.5 | 3 27 39.55 | 30 32.94 | 20 17 53.9 | 2 16 39.6 | 8.24615 | 203 | 16 30.8 |
| 24.0 | 3 58 12.49 | 31 46.63 | 22 34 33.5 | 1 55 13.4 | 8.24818 | 156 | 16 35.4 |
| 24.5 | 4 29 59.12 | 32 52.04 | 24 29 46.9 | 1 30 3.0 | 8.24974 | 104 | 16 39.0 |
| 25.0 | 5 2 51.16 | 33 42.71 | 25 59 49.9 | 1 1 43.0 | 8.25078 | + 47 | 16 41.4 |
| 25.5 | 5 36 33.87 | 34 12.90 | 27 1 32.9 | +0 31 8.7 | 8.25125 | − 11 | 16 42.5 |
| 26.0 | 6 10 46.77 | 34 18.72 | +27 32 41.6 | −0 0 27.6 | 8.25114 | 69 | 16 42.2 |
| 26.5 | 6 45 5.49 | 33 59.18 | 27 32 14.0 | 0 31 44.4 | 8.25045 | 126 | 16 40.6 |
| 27.0 | 7 19 4.67 | 33 16.49 | 27 0 29.6 | 1 1 24.7 | 8.24919 | 178 | 16 37.7 |
| 27.5 | 7 52 21.16 | 32 15.44 | 25 59 4.9 | 1 28 24.2 | 8.24741 | 226 | 16 33.6 |
| 28.0 | 8 24 36.60 | 31 2.17 | 24 30 40.7 | 1 51 59.2 | 8.24515 | 267 | 16 28.5 |
| 28.5 | 8 55 38.77 | 29 43.02 | 22 38 41.5 | 2 11 47.6 | 8.24248 | 300 | 16 22.4 |
| 29.0 | 9 25 21.79 | 28 23.52 | 20 26 53.9 | 2 27 46.4 | 8.23948 | 327 | 16 15.7 |
| 29.5 | 9 53 45.31 | 27 7.94 | 17 59 7.5 | 2 40 6.8 | 8.23621 | 344 | 16 8.4 |
| 30.0 | 10 20 53.25 | 25 59.15 | 15 19 0.7 | 2 49 7.3 | 8.23277 | 353 | 16 0.7 |
| 30.5 | 10 46 52.40 | 24 58.99 | 12 29 53.4 | −2 55 11.0 | 8.22924 | −356 | 15 52.9 |
| Juli 1.0 | 11 11 51.39 | 24 8.36 | + 9 34 42.4 | 2 58 41.1 | 8.22568 | 351 | 15 45.1 |
| 1.5 | 11 35 59.75 | 23 27.55 | 6 36 1.3 | 2 59 59.2 | 8.22217 | 341 | 15 37.5 |
| 2.0 | 11 59 27.30 | 22 56.45 | 3 36 2.1 | 2 59 23.4 | 8.21876 | 326 | 15 30.2 |
| 2.5 | 12 22 23.75 | 22 34.81 | + 0 36 38.7 | 2 57 8.3 | 8.21550 | 306 | 15 23.3 |
| 3.0 | 12 44 58.56 | 22 22.09 | − 2 20 29.6 | 2 53 25.2 | 8.21244 | 284 | 15 16.8 |
| 3.5 | 13 7 20.65 | 22 17.86 | 5 13 54.8 | 2 48 21.9 | 8.20960 | 258 | 15 10.8 |
| 4.0 | 13 29 38.51 | 22 21.45 | 8 2 16.7 | 2 42 2.7 | 8.20702 | 231 | 15 5.4 |
| 4.5 | 13 51 59.96 | 22 32.27 | 10 44 19.4 | 2 34 30.5 | 8.20471 | 203 | 15 0.6 |
| 5.0 | 14 14 32.23 | 22 49.51 | 13 18 49.9 | 2 25 45.3 | 8.20268 | 175 | 14 56.4 |
| 5.5 | 14 37 21.74 | 23 12.34 | 15 44 35.2 | −2 15 45.4 | 8.20093 | −147 | 14 52.8 |
| 6.0 | 15 0 34.08 | 23 39.67 | −18 0 20.6 | 2 4 30.0 | 8.19946 | 119 | 14 49.8 |
| 6.5 | 15 24 13.75 | 24 10.23 | 20 4 50.6 | 1 51 56.5 | 8.19827 | 91 | 14 47.3 |
| 7.0 | 15 48 23.98 | 24 42.47 | 21 56 47.1 | 1 38 4.9 | 8.19736 | 66 | 14 45.4 |
| 7.5 | 16 13 6.45 | 25 14.70 | 23 34 52.0 | 1 22 56.1 | 8.19670 | 41 | 14 44.1 |
| 8.0 | 16 38 21.15 | 25 45.02 | 24 57 48.1 | 1 6 34.8 | 8.19629 | 18 | 14 43.3 |
| 8.5 | 17 4 6.17 | 26 11.47 | 26 4 22.9 | 0 49 7.5 | 8.19611 | + 4 | 14 42.9 |
| 9.0 | 17 30 17.64 | 26 32.29 | 26 53 30.4 | 0 30 46.4 | 8.19615 | 24 | 14 43.0 |
| 9.5 | 17 56 49.93 | 26 45.93 | 27 24 16.8 | −0 11 45.6 | 8.19639 | 44 | 14 43.5 |
| 10.0 | 18 23 35.86 | 26 51.48 | 27 36 2.4 | +0 7 37.1 | 8.19683 | 61 | 14 44.4 |
| 10.5 | 18 50 27.34 | | 27 28 25.3 | | 8.19744 | | 14 45.7 |

Juni 26 2h 13.3m Neumond. Juli 2 22h 14.0m Erstes Viertel.

Im Meridian von Berlin.

| Datum und Kulmination | | Mittlere Zeit | AR. | Halbe Durchg.-D. Sternzeit | Bew. in 1h Länge | Dekl. | Bew. in 1h Länge | Vergl.-Sterne AR. | Vergl.-Sterne Dekl. | Vergl.-Sterne Gr. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | h m | h m s | s | s | ° ′ | ′ | h m | ° ′ | |
| Juni 21 | U | 7 32.7 | 1 28 2 | +67.20 | 130.28 | + 7 44.8 | +16.2 | 1 25.5 | + 5 41 | 5.0 |
| | O | 19 57.1 | 1 54 32 | +68.44 | 135.06 | +10 56.9 | +15.8 | 1 40.7 | + 8 43 | 4.5 |
| 22 | U | 8 22.6 | 2 22 5 | +69.89 | 140.75 | +14 3.3 | +15.2 | 2 8.2 | +14 52 | 5.8 |
| | O | 20 49.3 | 2 50 50 | +71.50 | 147.22 | +17 0.5 | +14.3 | 2 28.0 | +14 38 | 6.1 |
| 23 | U | 9 17.4 | 3 20 56 | +73.22 | 154.23 | +19 44.5 | +13.0 | | | |
| | O | 21 46.9 | 3 52 28 | +74.94 | 161.40 | +22 10.8 | +11.3 | | | |
| 24 | U | 10 17.8 | 4 25 24 | +76.55 | 168.18 | +24 14.9 | + 9.3 | | | |
| | O | 22 49.9 | 4 59 37 | +77.90 | 173.95 | +25 52.3 | + 6.9 | | | |
| 25 | U | 11 23.0 | 5 34 49 | +78.83 | 177.98 | +26 59.1 | + 4.2 | | | |
| | O | 23 56.8 | 6 10 38 | +79.25 | 179.75 | +27 32.6 | + 1.4 | | | |
| 26 | U | 12 30.7 | 6 46 33 | —79.09 | 179.06 | +27 31.5 | — 1.5 | | | |
| — | | — | — | — | — | — | — | | | |
| 27 | O | 1 4.1 | 7 22 5 | —78.36 | 175.91 | +26 56.2 | — 4.3 | | | |
| | U | 13 36.7 | 7 56 45 | —77.15 | 170.71 | +25 48.7 | — 6.9 | | | |
| 28 | O | 2 8.2 | 8 30 14 | —75.59 | 164.09 | +24 12.4 | — 9.1 | | | |
| | U | 14 38.2 | 9 2 17 | —73.82 | 156.71 | +22 11.4 | —11.0 | | | |
| 29 | O | 3 6.7 | 9 32 51 | —71.98 | 149.20 | +19 50.0 | —12.5 | | | |
| | U | 15 33.7 | 10 1 56 | —70.19 | 142.01 | +17 12.7 | —13.6 | | | |
| 30 | O | 3 59.4 | 10 29 39 | —68.53 | 135.48 | +14 23.6 | —14.4 | 10 2.5 | +17 12 | 3.6 |
| | U | 16 23.8 | 10 56 8 | —67.06 | 129.77 | +11 26.3 | —15.0 | 10 11.4 | +18 11 | 6.5 |
| Juli 1 | O | 4 47.2 | 11 21 35 | —65.80 | 124.99 | + 8 23.7 | —15.4 | 10 44.6 | +11 1 | 5.3 |
| | U | 17 9.8 | 11 46 10 | —64.77 | 121.16 | + 5 18.6 | —15.5 | 10 59.9 | +13 9 | 6.7 |
| 2 | O | 5 31.7 | 12 10 5 | —63.98 | 118.25 | + 2 13.2 | —15.4 | 11 41.3 | + 7 2 | 4.2 |
| | U | 17 53.1 | 12 33 30 | —63.42 | 116.24 | — 0 50.6 | —15.2 | 11 55.4 | + 4 9 | 5.2 |
| 3 | O | 6 14.2 | 12 56 37 | —63.09 | 115.07 | — 3 51.2 | —14.9 | 12 37.2 | — 0 58 | 2.9 |
| | U | 18 35.1 | 13 19 35 | —62.99 | 114.70 | — 6 47.0 | —14.4 | 12 48.6 | — 3 4 | 6.1 |
| 4 | O | 6 56.0 | 13 42 33 | —63.09 | 115.06 | — 9 36.8 | —13.8 | 13 19.9 | — 4 42 | 5.7 |
| | U | 19 17.1 | 14 5 39 | —63.36 | 116.09 | —12 19.1 | —13.2 | 13 25.8 | — 6 1 | 6.1 |
| 5 | O | 7 38.5 | 14 29 2 | —63.79 | 117.72 | —14 52.7 | —12.4 | 14 4.3 | — 9 55 | 6.5 |
| | U | 20 0.2 | 14 52 48 | —64.36 | 119.87 | —17 16.3 | —11.5 | 14 14.3 | —12 58 | 4.5 |
| 6 | O | 8 22.4 | 15 17 2 | —65.04 | 122.43 | —19 28.5 | —10.5 | 14 46.0 | —15 40 | 2.9 |
| | U | 20 45.1 | 15 41 48 | —65.79 | 125.29 | —21 27.8 | — 9.4 | 15 1.7 | —15 55 | 5.3 |
| 7 | O | 9 8.5 | 16 7 10 | —66.56 | 128.28 | —23 12.8 | — 8.1 | 15 36.8 | —19 23 | 5.0 |
| | U | 21 32.4 | 16 33 8 | —67.31 | 131.23 | —24 42.1 | — 6.7 | 15 48.7 | —23 43 | 5.3 |
| 8 | O | 9 56.9 | 16 59 40 | —67.99 | 133.95 | —25 54.2 | — 5.2 | 16 24.8 | —24 55 | 4.8 |
| | U | 22 21.9 | 17 26 42 | —68.56 | 136.25 | —26 47.9 | — 3.7 | 16 36.2 | —24 18 | 6.1 |
| 9 | O | 10 47.3 | 17 54 8 | —68.98 | 137.96 | —27 22.0 | — 2.0 | 17 26.3 | —26 12 | 6.0 |
| | U | 23 13.0 | 18 21 51 | —69.21 | 138.93 | —27 35.8 | — 0.3 | 17 37.7 | —27 51 | 6.3 |
| 10 | O | 11 38.7 | 18 49 40 | —69.24 | 139.11 | —27 28.9 | + 1.5 | 18 16.4 | —28 28 | 6.1 |
| — | | — | — | — | — | — | — | 18 22.2 | —26 41 | 6.2 |

Juni 25 16h Perigäum. Juli 8 16h Apogäum.

**Mittlerer Mittag und Mitternacht.**

| Datum | Wahre AR. | Diff. | Wahre Dekl. | Diff. | Log. sin. A. H. Par. | Diff. | Halbm. |
|---|---|---|---|---|---|---|---|
| Juli 10.0 | 18h 23m 35s.86 | 26m 51s.48 | −27° 36′ 2″.4 | +0° 7′ 37″.1 | 8.19683 | + 61 | 14′ 44″.4 |
| 10.5 | 18 50 27.34 | 26 48.57 | 27 28 25.3 | 0 27 2.0 | 8.19744 | 78 | 14 45.7 |
| 11.0 | 19 17 15.91 | 26 37.59 | 27 1 23.3 | 0 46 9.0 | 8.19822 | 94 | 14 47.3 |
| 11.5 | 19 43 53.50 | 26 19.53 | 26 15 14.3 | 1 4 39.9 | 8.19916 | 110 | 14 49.2 |
| 12.0 | 20 10 13.03 | 25 55.92 | 25 10 34.4 | 1 22 17.4 | 8.20026 | 123 | 14 51.4 |
| 12.5 | 20 36 8.95 | 25 28.62 | 23 48 17.0 | 1 38 48.8 | 8.20149 | 138 | 14 53.9 |
| 13.0 | 21 1 37.57 | 24 59.56 | 22 9 28.2 | 1 54 3.7 | 8.20287 | 153 | 14 56.8 |
| 13.5 | 21 26 37.13 | 24 30.72 | 20 15 24.5 | 2 7 55.3 | 8.20440 | 167 | 15 0.0 |
| 14.0 | 21 51 7.85 | 24 3.87 | 18 7 29.2 | 2 20 20.1 | 8.20607 | 181 | 15 3.4 |
| 14.5 | 22 15 11.72 | 23 40.56 | 15 47 9.1 | +2 31 15.4 | 8.20788 | +195 | 15 7.2 |
| 15.0 | 22 38 52.28 | 23 22.15 | −13 15 53.7 | 2 40 40.6 | 8.20983 | 208 | 15 11.3 |
| 15.5 | 23 2 14.43 | 23 9.71 | 10 35 13.1 | 2 48 34.9 | 8.21191 | 223 | 15 15.7 |
| 16.0 | 23 25 24.14 | 23 4.21 | 7 46 38.2 | 2 54 57.6 | 8.21414 | 236 | 15 20.4 |
| 16.5 | 23 48 28.35 | 23 6.43 | 4 51 40.6 | 2 59 45.8 | 8.21650 | 249 | 15 25.4 |
| 17.0 | 0 11 34.78 | 23 17.01 | − 1 51 54.8 | 3 2 55.8 | 8.21899 | 259 | 15 30.7 |
| 17.5 | 0 34 51.79 | 23 36.52 | + 1 11 1.0 | 3 4 20.1 | 8.22158 | 268 | 15 36.3 |
| 18.0 | 0 58 28.31 | 24 5.39 | 4 15 21.1 | 3 3 49.4 | 8.22426 | 274 | 15 42.1 |
| 18.5 | 1 22 33.70 | 24 43.80 | 7 19 10.5 | 3 1 11.8 | 8.22700 | 277 | 15 48.0 |
| 19.0 | 1 47 17.50 | 25 31.81 | 10 20 22.3 | 2 56 11.6 | 8.22977 | 277 | 15 54.1 |
| 19.5 | 2 12 49.31 | 26 28.85 | 13 16 33.9 | +2 48 30.9 | 8.23254 | +271 | 16 0.2 |
| 20.0 | 2 39 18.16 | 27 33.79 | +16 5 4.8 | 2 37 50.8 | 8.23525 | 260 | 16 6.2 |
| 20.5 | 3 6 51.95 | 28 44.62 | 18 42 55.6 | 2 23 54.5 | 8.23785 | 242 | 16 12.0 |
| 21.0 | 3 35 36.57 | 29 58.18 | 21 6 50.1 | 2 6 28.5 | 8.24027 | 221 | 16 17.4 |
| 21.5 | 4 5 34.75 | 31 10.14 | 23 13 18.6 | 1 45 28.6 | 8.24248 | 192 | 16 22.4 |
| 22.0 | 4 36 44.89 | 32 15.02 | 24 58 47.2 | 1 21 4.5 | 8.24440 | 157 | 16 26.8 |
| 22.5 | 5 8 59.91 | 33 6.96 | 26 19 51.7 | 0 53 42.3 | 8.24597 | 117 | 16 30.4 |
| 23.0 | 5 42 6.87 | 33 40.45 | 27 13 34.0 | +0 24 8.6 | 8.24714 | 71 | 16 33.0 |
| 23.5 | 6 15 47.32 | 33 51.56 | 27 37 42.6 | −0 6 33.8 | 8.24785 | + 23 | 16 34.6 |
| 24.0 | 6 49 38.88 | 33 38.91 | 27 31 8.8 | 0 37 12.1 | 8.24808 | − 28 | 16 35.1 |
| 24.5 | 7 23 17.79 | 33 4.04 | 26 53 56.7 | −1 6 32.9 | 8.24780 | − 80 | 16 34.5 |
| 25.0 | 7 56 21.83 | 32 10.90 | +25 47 23.8 | 1 33 31.6 | 8.24700 | 130 | 16 32.7 |
| 25.5 | 8 28 32.73 | 31 5.01 | 24 13 52.2 | 1 57 20.6 | 8.24570 | 178 | 16 29.7 |
| 26.0 | 8 59 37.74 | 29 52.26 | 22 16 31.6 | 2 17 31.1 | 8.24392 | 221 | 16 25.7 |
| 26.5 | 9 29 30.00 | 28 37.98 | 19 59 0.5 | 2 33 53.1 | 8.24171 | 259 | 16 20.7 |
| 27.0 | 9 58 7.98 | 27 26.45 | 17 25 7.4 | 2 46 30.2 | 8.23912 | 290 | 16 14.9 |
| 27.5 | 10 25 34.43 | 26 20.73 | 14 38 37.2 | 2 55 37.3 | 8.23622 | 315 | 16 8.4 |
| 28.0 | 10 51 55.16 | 25 22.82 | 11 42 59.9 | 3 1 33.9 | 8.23307 | 331 | 16 1.4 |
| 28.5 | 11 17 17.98 | 24 33.76 | 8 41 26.0 | 3 4 42.6 | 8.22976 | 341 | 15 54.1 |
| 29.0 | 11 41 51.74 | 23 54.03 | 5 36 43.4 | 3 5 24.6 | 8.22635 | 344 | 15 46.6 |
| 29.5 | 12 5 45.77 | | 2 31 18.8 | | 8.22291 | | 15 39.2 |

Juli 11 1h 47m.0 Vollmond. Juli 18 18h 24m.4 Letzt. Viert. Juli 25 9h 5m.6 Neumond.

## Im Meridian von Berlin.

| Datum und Kulmination | | Mittlere Zeit | AR. | Halbe Durchg.-D. Sternzeit | Bew. in 1h Länge | Dekl. | Bew. in 1h Länge | Vergl.-Sterne AR. | Vergl.-Sterne Dekl. | Vergl.-Sterne Gr. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | h m | h m s | s | s | ° ′ | ′ | h m | ° ′ | |
| Juli 10 | O | 11 38.7 | 18 49 40 | −69.24 | 139.11 | −27 28.9 | + 1.5 | 18 16.4 | −28 28 | 6.1 |
| — | | — | — | — | — | — | — | 18 22.2 | −26 41 | 6.2 |
| 11 | U | 0 4.4 | 19 17 26 | −69.07 | 138.48 | −27 1.2 | + 3.2 | 19 19.0 | −28 2 | 5.9 |
| | O | 12 30.0 | 19 45 0 | +68.71 | 137.04 | −26 12.9 | + 4.9 | 19 24.4 | −27 10 | 5.7 |
| 12 | U | 0 55.2 | 20 12 13 | +68.20 | 135.03 | −25 4.9 | + 6.5 | 20 27.6 | −25 15 | 6.2 |
| | O | 13 19.9 | 20 39 0 | +67.59 | 132.60 | −23 38.1 | + 8.0 | 20 32.6 | −25 25 | 6.3 |
| 13 | U | 1 44.1 | 21 5 16 | +66.91 | 129.95 | −21 53.9 | + 9.4 | 21 4.5 | −20 55 | 6.1 |
| | O | 14 7.8 | 21 31 0 | +66.21 | 127.27 | −19 53.7 | +10.6 | 21 10.6 | −21 1 | 5.3 |
| 14 | U | 2 31.0 | 21 56 13 | +65.55 | 124.73 | −17 39.0 | +11.8 | 21 46.8 | −19 2 | 6.1 |
| | O | 14 53.7 | 22 20 56 | +64.98 | 122.49 | −15 11.6 | +12.8 | 21 57.3 | −18 20 | 6.4 |
| 15 | U | 3 16.0 | 22 45 15 | +64.52 | 120.69 | −12 33.0 | +13.6 | 22 43.9 | −11 2 | 6.1 |
| | O | 15 38.0 | 23 9 16 | +64.20 | 119.44 | − 9 44.9 | +14.3 | 22 48.8 | −12 5 | 5.8 |
| 16 | U | 3 59.8 | 23 33 5 | +64.05 | 118.83 | − 6 49.0 | +14.9 | 23 31.0 | − 7 57 | 6.5 |
| | O | 16 21.5 | 23 56 51 | +64.10 | 118.94 | − 3 46.9 | +15.4 | 23 44.0 | − 6 52 | 6.3 |
| 17 | U | 4 43.3 | 0 20 43 | +64.37 | 119.83 | − 0 40.2 | +15.7 | 0 22.1 | − 0 33 | 6.4 |
| | O | 17 5.4 | 0 44 50 | +64.87 | 121.56 | + 2 29.1 | +15.9 | 0 31.0 | − 1 0 | 5.4 |
| 18 | U | 5 27.9 | 1 9 22 | +65.59 | 124.17 | + 5 39.2 | +15.8 | 1 3.8 | + 5 11 | 5.6 |
| | O | 17 51.0 | 1 34 32 | +66.54 | 127.70 | + 8 48.0 | +15.6 | 1 9.1 | + 7 6 | 5.4 |
| 19 | U | 6 14.9 | 2 0 29 | +67.72 | 132.15 | +11 52.9 | +15.2 | 1 57.8 | +13 3 | 6.3 |
| | O | 18 39.8 | 2 27 24 | +69.11 | 137.48 | +14 51.3 | +14.5 | 2 8.2 | +14 52 | 5.8 |
| 20 | U | 7 5.8 | 2 55 28 | +70.67 | 143.60 | +17 39.9 | +13.5 | 2 51.4 | +17 40 | 5.6 |
| | O | 19 33.1 | 3 24 49 | +72.34 | 150.28 | +20 15.3 | +12.3 | 3 2.4 | +17 32 | 6.0 |
| 21 | U | 8 1.8 | 3 55 32 | +74.03 | 157.21 | +22 33.6 | +10.7 | 3 51.8 | +22 55 | 6.0 |
| | O | 20 31.9 | 4 27 37 | +75.63 | 163.93 | +24 30.7 | + 8.7 | 3 55.7 | +22 57 | 6.5 |
| 22 | U | 9 3.2 | 5 0 59 | +77.02 | 169.84 | +26 2.4 | + 6.4 | | | |
| | O | 21 35.5 | 5 35 25 | +78.05 | 174.34 | +27 5.1 | + 3.9 | | | |
| 23 | U | 10 8.6 | 6 10 33 | +78.62 | 176.84 | +27 36.0 | + 1.2 | | | |
| | O | 22 42.0 | 6 45 59 | +78.65 | 177.00 | +27 33.4 | − 1.6 | | | |
| 24 | U | 11 15.2 | 7 21 13 | +78.13 | 174.82 | +26 57.2 | − 4.4 | | | |
| | O | 23 47.7 | 7 55 48 | +77.13 | 170.57 | +25 48.8 | − 7.0 | | | |
| 25 | U | 12 19.2 | 8 29 23 | −75.76 | 165.04 | +24 11.1 | − 9.3 | | | |
| — | | — | — | — | — | — | — | | | |
| 26 | O | 0 49.5 | 9 1 43 | −74.15 | 158.39 | +22 7.7 | −11.2 | | | |
| | U | 13 18.4 | 9 32 40 | −72.44 | 151.40 | +19 43.0 | −12.8 | | | |
| 27 | O | 1 45.9 | 10 2 14 | −70.74 | 144.56 | +17 1.3 | −14.1 | | | |
| | U | 14 12.1 | 10 30 29 | −69.14 | 138.23 | +14 7.0 | −15.0 | | | |
| 28 | O | 2 37.1 | 10 57 32 | −67.70 | 132.61 | +11 3.8 | −15.6 | | | |
| | U | 15 1.1 | 11 23 33 | −66.47 | 127.85 | + 7 55.2 | −15.9 | | | |
| 29 | O | 3 24.2 | 11 48 42 | −65.46 | 123.98 | + 4 44.1 | −16.0 | | | |
| | U | 15 46.6 | 12 13 10 | −64.68 | 121.01 | + 1 33.2 | −15.9 | | | |

Juli 23 $23^h$ Perigäum.

## Mittlerer Mittag und Mitternacht.

| Datum | | Wahre AR. | Diff. | Wahre Dekl. | Diff. | Log. sin. A. H. Par. | Diff. | Halbm. |
|---|---|---|---|---|---|---|---|---|
| | | h m s | m s | ° ′ ″ | ° ′ ″ | | | ′ ″ |
| Juli | 29.0 | 11 41 51.74 | 23 54.03 | + 5 36 43.4 | −3 5 24.6 | 8.22635 | −344 | 15 46.6 |
| | 29.5 | 12 5 45.77 | 23 23.67 | + 2 31 18.8 | 3 3 59.7 | 8.22291 | 339 | 15 39.2 |
| | 30.0 | 12 29 9.44 | 23 2.43 | − 0 32 40.9 | 3 0 45.2 | 8.21952 | 328 | 15 31.9 |
| | 30.5 | 12 52 11.87 | 22 49.95 | 3 33 26.1 | 2 55 53.6 | 8.21624 | 312 | 15 24.9 |
| | 31.0 | 13 15 1.82 | 22 45.69 | 6 29 19.7 | 2 49 36.1 | 8.21312 | 293 | 15 18.2 |
| | 31.5 | 13 37 47.51 | 22 49.11 | 9 18 55.8 | 2 41 59.8 | 8.21019 | 268 | 15 12.0 |
| Aug. | 1.0 | 14 0 36.62 | 22 59.50 | 12 0 55.6 | 2 33 8.7 | 8.20751 | 240 | 15 6.4 |
| | 1.5 | 14 23 36.12 | 23 16.08 | 14 34 4.3 | 2 23 5.3 | 8.20511 | 210 | 15 1.4 |
| | 2.0 | 14 46 52.20 | 23 37.94 | 16 57 9.6 | 2 11 50.5 | 8.20301 | 179 | 14 57.1 |
| | 2.5 | 15 10 30.14 | 24 3.97 | 19 9 0.1 | −1 59 24.2 | 8.20122 | −148 | 14 53.4 |
| | 3.0 | 15 34 34.11 | 24 32.80 | −21 8 24.3 | 1 45 45.9 | 8.19974 | 116 | 14 50.3 |
| | 3.5 | 15 59 6.91 | 25 2.98 | 22 54 10.2 | 1 30 56.2 | 8.19858 | 84 | 14 48.0 |
| | 4.0 | 16 24 9.89 | 25 32.70 | 24 25 6.4 | 1 14 57.1 | 8.19774 | 52 | 14 46.3 |
| | 4.5 | 16 49 42.59 | 26 0.16 | 25 40 3.5 | 0 57 53.5 | 8.19722 | − 23 | 14 45.2 |
| | 5.0 | 17 15 42.75 | 26 23.52 | 26 37 57.0 | 0 39 52.8 | 8.19699 | + 6 | 14 44.7 |
| | 5.5 | 17 42 6.27 | 26 41.12 | 27 17 49.8 | 0 21 6.3 | 8.19705 | 33 | 14 44.8 |
| | 6.0 | 18 8 47.39 | 26 51.68 | 27 38 56.1 | −0 1 48.0 | 8.19738 | 57 | 14 45.5 |
| | 6.5 | 18 35 39.07 | 26 54.39 | 27 40 44.1 | +0 17 44.9 | 8.19795 | 79 | 14 46.7 |
| | 7.0 | 19 2 33.46 | 26 49.10 | 27 22 59.2 | 0 37 13.9 | 8.19874 | 100 | 14 48.3 |
| | 7.5 | 19 29 22.56 | 26 36.33 | 26 45 45.3 | +0 56 20.3 | 8.19974 | +117 | 14 50.3 |
| | 8.0 | 19 55 58.89 | 26 17.17 | −25 49 25.0 | 1 14 45.7 | 8.20091 | 132 | 14 52.7 |
| | 8.5 | 20 22 16.06 | 25 53.15 | 24 34 39.3 | 1 32 14.1 | 8.20223 | 146 | 14 55.5 |
| | 9.0 | 20 48 9.21 | 25 26.02 | 23 2 25.2 | 1 48 32.2 | 8.20369 | 157 | 14 58.5 |
| | 9.5 | 21 13 35.23 | 24 57.75 | 21 13 53.0 | 2 3 29.1 | 8.20526 | 166 | 15 1.7 |
| | 10.0 | 21 38 32.98 | 24 30.06 | 19 10 23.9 | 2 16 57.4 | 8.20692 | 174 | 15 5.2 |
| | 10.5 | 22 3 3.04 | 24 4.65 | 16 53 26.5 | 2 28 51.5 | 8.20866 | 179 | 15 8.8 |
| | 11.0 | 22 27 7.69 | 23 42.92 | 14 24 35.0 | 2 39 7.6 | 8.21045 | 185 | 15 12.6 |
| | 11.5 | 22 50 50.61 | 23 26.17 | 11 45 27.4 | 2 47 43.7 | 8.21230 | 189 | 15 16.5 |
| | 12.0 | 23 14 16.78 | 23 15.32 | 8 57 43.7 | 2 54 37.5 | 8.21419 | 192 | 15 20.5 |
| | 12.5 | 23 37 32.10 | 23 11.23 | 6 3 6.2 | +2 59 47.6 | 8.21611 | +194 | 15 24.6 |
| | 13.0 | 0 0 43.33 | 23 14.63 | − 3 3 18.6 | 3 3 10.6 | 8.21805 | 197 | 15 28.7 |
| | 13.5 | 0 23 57.96 | 23 26.01 | − 0 0 8.0 | 3 4 42.9 | 8.22002 | 199 | 15 32.9 |
| | 14.0 | 0 47 23.97 | 23 45.83 | + 3 4 34.9 | 3 4 19.0 | 8.22201 | 199 | 15 37.2 |
| | 14.5 | 1 11 9.80 | 24 14.34 | 6 8 53.9 | 3 1 51.5 | 8.22400 | 199 | 15 41.5 |
| | 15.0 | 1 35 24.14 | 24 51.61 | 9 10 45.4 | 2 57 11.4 | 8.22599 | 198 | 15 45.8 |
| | 15.5 | 2 0 15.75 | 25 37.37 | 12 7 56.8 | 2 50 7.6 | 8.22797 | 196 | 15 50.1 |
| | 16.0 | 2 25 53.12 | 26 30.94 | 14 58 4.4 | 2 40 27.6 | 8.22993 | 193 | 15 54.4 |
| | 16.5 | 2 52 24.06 | 27 30.94 | 17 38 32.0 | 2 27 59.5 | 8.23186 | 187 | 15 58.7 |
| | 17.0 | 3 19 55.00 | 28 35.24 | 20 6 31.5 | 2 12 32.8 | 8.23373 | 178 | 16 2.8 |
| | 17.5 | 3 48 30.24 | | 22 19 4.3 | | 8.23551 | | 16 6.8 |

Aug. 1 12h 23.0m Erst. Viert. Aug. 9 15h 48.3m Vollmond. Aug. 17 1h 4.3m Letzt. Viert.

## Im Meridian von Berlin.

| Datum und Kulmination | | | Mittlere Zeit | AR. | Halbe Durchg.-D. Sternzeit | Bew. in 1h Länge | Dekl. | Bew. in 1h Länge | Vergl.-Sterne AR. | Dekl. | Gr. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | h m | h m s | s | s | ° ' | ' | h m | ° ' | |
| Juli | 29 | O | 3 24.2 | 11 48 42 | −65.46 | 123.98 | + 4 44.1 | −16.0 | | | |
| | | U | 15 46.6 | 12 13 10 | −64.68 | 121.01 | + 1 33.2 | −15.9 | | | |
| | 30 | O | 4 8.6 | 12 37 9 | −64.13 | 118.92 | − 1 35.5 | −15.6 | 12 5.1 | + 2 24 | 6.2 |
| | | U | 16 30.2 | 13 0 47 | −63.81 | 117.65 | − 4 40.1 | −15.2 | 12 14.1 | − 0 18 | 5.9 |
| | 31 | O | 4 51.6 | 13 24 15 | −63.70 | 117.16 | − 7 38.9 | −14.6 | 12 59.3 | − 3 11 | 6.5 |
| | | U | 17 13.0 | 13 47 42 | −63.79 | 117.41 | −10 30.4 | −13.9 | 13 5.4 | − 5 4 | 4.4 |
| Aug. | 1 | O | 5 34.6 | 14 11 16 | −64.05 | 118.32 | −13 13.3 | −13.2 | 13 42.5 | − 9 16 | 6.2 |
| | | U | 17 56.4 | 14 35 5 | −64.47 | 119.82 | −15 46.2 | −12.3 | 14 4.3 | − 9 55 | 6.5 |
| | 2 | O | 6 18.5 | 14 59 15 | −65.03 | 121.82 | −18 7.9 | −11.3 | 14 32.3 | −11 56 | 6.2 |
| | | U | 18 41.1 | 15 23 51 | −65.67 | 124.22 | −20 17.1 | −10.2 | 14 45.8 | −15 38 | 5.4 |
| | 3 | O | 7 4.2 | 15 48 58 | −66.38 | 126.89 | −22 12.4 | − 9.0 | 15 15.9 | −17 50 | 6.2 |
| | | U | 19 27.8 | 16 14 38 | −67.10 | 129.67 | −23 52.5 | − 7.7 | 15 25.5 | −20 25 | 6.2 |
| | 4 | O | 7 52.0 | 16 40 51 | −67.79 | 132.41 | −25 16.1 | − 6.2 | 16 9.5 | −25 15 | 6.0 |
| | | U | 20 16.7 | 17 7 36 | −68.42 | 134.91 | −26 21.9 | − 4.7 | 16 15.3 | −23 57 | 4.9 |
| | 5 | O | 8 41.9 | 17 34 48 | −68.92 | 136.99 | −27 8.7 | − 3.1 | 17 1.4 | −26 24 | 6.2 |
| | | U | 21 7.4 | 18 2 22 | −69.27 | 138.49 | −27 35.6 | − 1.4 | 17 9.9 | −26 28 | 5.4 |
| | 6 | O | 9 33.1 | 18 30 10 | −69.44 | 139.28 | −27 41.9 | + 0.3 | 18 2.5 | −28 28 | 4.7 |
| | | U | 21 58.9 | 18 58 2 | −69.41 | 139.32 | −27 27.3 | + 2.1 | 18 6.4 | −28 55 | 6.4 |
| | 7 | O | 10 24.7 | 19 25 50 | −69.19 | 138.59 | −26 51.8 | + 3.8 | 18 49.8 | −26 24 | 2.1 |
| | | U | 22 50.2 | 19 53 25 | −68.79 | 137.17 | −25 55.7 | + 5.5 | 19 1.4 | −27 48 | 3.5 |
| | 8 | O | 11 15.4 | 20 20 39 | −68.25 | 135.19 | −24 39.8 | + 7.1 | 19 50.4 | −26 32 | 4.8 |
| | | U | 23 40.2 | 20 47 27 | −67.62 | 132.82 | −23 5.2 | + 8.6 | 19 53.6 | −26 26 | 4.9 |
| | 9 | O | 12 4.5 | 21 13 45 | −66.93 | 130.24 | −21 13.2 | +10.0 | 20 47.9 | −24 7 | 6.2 |
| | — | | — | — | — | — | — | — | 21 3.5 | −21 33 | 5.3 |
| | 10 | U | 0 28.2 | 21 39 31 | +66.24 | 127.51 | −19 5.3 | +11.3 | 21 38.3 | −20 2 | 6.1 |
| | | O | 12 51.4 | 22 4 47 | +65.59 | 125.06 | −16 43.2 | +12.4 | 21 45.4 | −17 16 | 6.5 |
| | 11 | U | 1 14.2 | 22 29 35 | +65.02 | 122.92 | −14 8.6 | +13.4 | 22 25.6 | −15 2 | 6.1 |
| | | O | 13 36.6 | 22 54 0 | +64.57 | 121.21 | −11 23.4 | +14.2 | 22 43.0 | −14 32 | 5.6 |
| | 12 | U | 1 58.7 | 23 18 7 | +64.26 | 120.03 | − 8 29.4 | +14.8 | 23 14.4 | −10 6 | 5.2 |
| | | O | 14 20.6 | 23 42 4 | +64.13 | 119.46 | − 5 28.4 | +15.3 | 23 24.5 | − 9 45 | 6.3 |
| | 13 | U | 2 42.4 | 0 5 57 | +64.20 | 119.59 | − 2 22.2 | +15.7 | 0 3.7 | − 2 57 | 6.3 |
| | | O | 15 4.4 | 0 29 57 | +64.46 | 120.46 | + 0 47.1 | +15.9 | 0 20.0 | − 2 43 | 6.3 |
| | 14 | U | 3 26.6 | 0 54 11 | +64.94 | 122.11 | + 3 57.6 | +15.9 | 0 46.8 | + 2 54 | 6.5 |
| | | O | 15 49.2 | 1 18 49 | +65.64 | 124.59 | + 7 7.2 | +15.7 | 1 0.3 | + 5 11 | 6.2 |
| | 15 | U | 4 12.4 | 1 44 2 | +66.57 | 127.90 | +10 13.5 | +15.3 | 1 46.2 | +10 36 | 6.0 |
| | | O | 16 36.3 | 2 10 0 | +67.70 | 132.04 | +13 14.2 | +14.7 | 1 54.7 | +11 52 | 6.0 |
| | 16 | U | 5 1.1 | 2 36 52 | +69.00 | 136.95 | +16 6.5 | +13.9 | 2 39.4 | +17 23 | 6.5 |
| | | O | 17 27.0 | 3 4 46 | +70.44 | 142.51 | +18 47.5 | +12.8 | 2 44.4 | +17 6 | 5.2 |
| | 17 | U | 5 54.0 | 3 33 50 | +71.97 | 148.52 | +21 13.8 | +11.5 | 3 33.9 | +20 38 | 6.5 |
| | | O | 18 22.2 | 4 4 8 | +73.50 | 154.68 | +23 22.1 | + 9.8 | 3 38.7 | +19 23 | 6.2 |

Aug. 5 $3^h$ Apogäum.

## Mittlerer Mittag und Mitternacht.

| Datum | Wahre AR. | Diff. | Wahre Dekl. | Diff. | Log. sin. A. H. Par. | Diff. | Halbm. |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ° ′ ″ | | | ′ ″ |
| Aug. 17.0 | 3 19 55.00 | 28 35.24 | +20 6 31.5 | +2 12 32.8 | 8.23373 | +178 | 16 2.8 |
| 17.5 | 3 48 30.24 | 29 40.78 | 22 19 4.3 | 1 54 1.6 | 8.23551 | 166 | 16 6.8 |
| 18.0 | 4 18 11.02 | 30 43.52 | 24 13 5.9 | 1 32 28.4 | 8.23717 | 150 | 16 10.5 |
| 18.5 | 4 48 54.54 | 31 38.76 | 25 45 34.3 | 1 8 6.3 | 8.23867 | 131 | 16 13.8 |
| 19.0 | 5 20 33.30 | 32 21.60 | 26 53 40.6 | 0 41 21.9 | 8.23998 | 108 | 16 16.8 |
| 19.5 | 5 52 54.90 | 32 47.73 | 27 35 2.5 | +0 12 56.9 | 8.24106 | 82 | 16 19.3 |
| 20.0 | 6 25 42.63 | 32 54.37 | 27 47 59.4 | −0 16 14.8 | 8.24188 | 50 | 16 21.1 |
| 20.5 | 6 58 37.00 | 32 40.76 | 27 31 44.6 | 0 45 13.6 | 8.24238 | +16 | 16 22.2 |
| 21.0 | 7 31 17.76 | 32 8.49 | 26 46 31.0 | 1 12 58.5 | 8.24254 | −20 | 16 22.6 |
| 21.5 | 8 3 26.25 | | 25 33 32.5 | | 8.24234 | | 16 22.1 |
| | | 31 21.05 | | −1 38 36.4 | | −59 | |
| 22.0 | 8 34 47.30 | 30 23.01 | +23 54 56.1 | 2 1 25.9 | 8.24175 | 97 | 16 20.8 |
| 22.5 | 9 5 10.31 | 29 19.31 | 21 53 30.2 | 2 21 1.0 | 8.24078 | 136 | 16 18.6 |
| 23.0 | 9 34 29.62 | 28 14.35 | 19 32 29.2 | 2 37 7.7 | 8.23942 | 173 | 16 15.5 |
| 23.5 | 10 2 43.97 | 27 11.80 | 16 55 21.5 | 2 49 45.7 | 8.23769 | 206 | 16 11.6 |
| 24.0 | 10 29 55.77 | 26 14.36 | 14 5 35.8 | 2 59 3.0 | 8.23563 | 237 | 16 7.0 |
| 24.5 | 10 56 10.13 | 25 23.75 | 11 6 32.8 | 3 5 12.0 | 8.23326 | 262 | 16 1.8 |
| 25.0 | 11 21 33.88 | 24 41.10 | 8 1 20.8 | 3 8 29.6 | 8.23064 | 281 | 15 56.0 |
| 25.5 | 11 46 14.98 | 24 6.82 | 4 52 51.2 | 3 9 13.1 | 8.22783 | 295 | 15 49.8 |
| 26.0 | 12 10 21.80 | 23 41.07 | +1 43 38.1 | 3 7 39.2 | 8.22488 | 303 | 15 43.4 |
| 26.5 | 12 34 2.87 | | −1 24 1.1 | | 8.22185 | | 15 36.8 |
| | | 23 23.63 | | −3 4 3.3 | | −305 | |
| 27.0 | 12 57 26.50 | 23 14.27 | −4 28 4.4 | 2 58 38.6 | 8.21880 | 299 | 15 30.3 |
| 27.5 | 13 20 40.77 | 23 12.43 | 7 26 43.0 | 2 51 36.4 | 8.21581 | 290 | 15 23.9 |
| 28.0 | 13 43 53.20 | 23 17.56 | 10 18 19.4 | 2 43 5.4 | 8.21291 | 275 | 15 17.8 |
| 28.5 | 14 7 10.76 | 23 28.99 | 13 1 24.8 | 2 33 12.3 | 8.21016 | 255 | 15 12.0 |
| 29.0 | 14 30 39.75 | 23 45.89 | 15 34 37.1 | 2 22 1.5 | 8.20761 | 231 | 15 6.6 |
| 29.5 | 14 54 25.64 | 24 7.29 | 17 56 38.6 | 2 9 36.6 | 8.20530 | 203 | 15 1.8 |
| 30.0 | 15 18 32.93 | 24 32.02 | 20 6 15.2 | 1 56 0.3 | 8.20327 | 173 | 14 57.6 |
| 30.5 | 15 43 4.95 | 24 58.74 | 22 2 15.5 | 1 41 14.8 | 8.20154 | 142 | 14 54.0 |
| 31.0 | 16 8 3.69 | 25 25.93 | 23 43 30.3 | 1 25 23.7 | 8.20012 | 108 | 14 51.1 |
| 31.5 | 16 33 29.62 | | 25 8 54.0 | | 8.19904 | | 14 48.9 |
| | | 25 51.92 | | −1 8 30.8 | | −74 | |
| Sept. 1.0 | 16 59 21.54 | 26 15.03 | −26 17 24.8 | 0 50 43.2 | 8.19830 | 40 | 14 47.4 |
| 1.5 | 17 25 36.57 | 26 33.69 | 27 8 8.0 | 0 32 9.2 | 8.19790 | −5 | 14 46.6 |
| 2.0 | 17 52 10.26 | 26 46.53 | 27 40 17.2 | −0 13 0.6 | 8.19785 | +27 | 14 46.5 |
| 2.5 | 18 18 56.79 | 26 52.59 | 27 53 17.8 | +0 6 28.9 | 8.19812 | 58 | 14 47.0 |
| 3.0 | 18 45 49.38 | 26 51.46 | 27 46 48.9 | 0 26 3.8 | 8.19870 | 88 | 14 48.2 |
| 3.5 | 19 12 40.84 | 26 43.30 | 27 20 45.1 | 0 45 28.2 | 8.19958 | 115 | 14 50.0 |
| 4.0 | 19 39 24.14 | 26 28.77 | 26 35 16.9 | 1 4 25.1 | 8.20073 | 139 | 14 52.4 |
| 4.5 | 20 5 52.91 | 26 9.08 | 25 30 51.8 | 1 22 39.4 | 8.20212 | 161 | 14 55.3 |
| 5.0 | 20 32 1.99 | 25 45.75 | 24 8 12.4 | 1 39 56.9 | 8.20373 | 179 | 14 58.6 |
| 5.5 | 20 57 47.74 | | 22 28 15.5 | | 8.20552 | | 15 2.3 |

Aug. 17 $1^{h}\,4^{m}.3$ Letzt. Viert. Aug. 23 $17^{h}\,7^{m}.9$ Neumond. Aug. 31 $5^{h}\,14^{m}.3$ Erst. Viert.

Im Meridian von Berlin.

| Datum und Kulmination | | Mittlere Zeit | AR. | Halbe Durchg.-D. Sternzeit | Bew. in $1^h$ Länge | Dekl. | Bew. in $1^h$ Länge | Vergl.-Sterne AR. | Vergl.-Sterne Dekl. | Gr. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | h m | h m s | s | s | ° ' | ' | h m | ° ' | |
| Aug. 17 | U | 5 54.0 | 3 33 50 | +71.97 | 148.52 | +21 13.8 | +11.5 | 3 33.9 | +20 38 | 6.5 |
| | O | 18 22.2 | 4 4 8 | +73.50 | 154.68 | +23 22.1 | + 9.8 | 3 38.7 | +19 23 | 6.2 |
| 18 | U | 6 51.7 | 4 35 38 | +74.94 | 160.57 | +25 8.8 | + 7.9 | 4 37.9 | +23 55 | 6.2 |
| | O | 19 22.3 | 5 8 15 | +76.17 | 165.70 | +26 30.5 | + 5.7 | 4 50.9 | +24 27 | 6.3 |
| 19 | U | 7 53.8 | 5 41 47 | +77.06 | 169.55 | +27 24.1 | + 3.2 | 5 34.2 | +25 51 | 5.1 |
| | O | 20 25.9 | 6 15 56 | +77.54 | 171.68 | +27 47.2 | + 0.6 | 5 45.4 | +27 57 | 5.6 |
| 20 | U | 8 58.2 | 6 50 19 | +77.56 | 171.83 | +27 38.6 | − 2.1 | | | |
| | O | 21 30.3 | 7 24 32 | +77.09 | 169.98 | +26 58.3 | − 4.7 | | | |
| 21 | U | 10 1.9 | 7 58 13 | +76.21 | 166.36 | +25 47.4 | − 7.2 | | | |
| | O | 22 32.7 | 8 31 2 | +75.00 | 161.42 | +24 8.2 | − 9.4 | | | |
| 22 | U | 11 2.4 | 9 2 47 | +73.58 | 155.65 | +22 4.0 | −11.3 | | | |
| | O | 23 30.9 | 9 33 20 | +72.05 | 149.54 | +19 38.5 | −12.9 | | | |
| 23 | U | 11 58.2 | 10 2 40 | +70.53 | 143.54 | +16 55.8 | −14.2 | | | |
| — | | — | — | — | — | — | — | | | |
| 24 | O | 0 24.3 | 10 30 50 | −69.09 | 138.17 | +13 59.7 | −15.1 | | | |
| | U | 12 49.4 | 10 57 56 | −67.80 | 133.18 | +10 54.0 | −15.8 | | | |
| 25 | O | 1 13.5 | 11 24 7 | −66.69 | 128.91 | + 7 42.2 | −16.2 | | | |
| | U | 13 36.9 | 11 49 32 | −65.78 | 125.45 | + 4 27.4 | −16.3 | | | |
| 26 | O | 1 59.7 | 12 14 20 | −65.08 | 122.80 | + 1 12.3 | −16.2 | | | |
| | U | 14 22.0 | 12 38 41 | −64.61 | 120.95 | − 2 0.6 | −15.9 | | | |
| 27 | O | 2 44.0 | 13 2 45 | −64.35 | 119.87 | − 5 9.3 | −15.5 | | | |
| | U | 15 5.9 | 13 26 40 | −64.29 | 119.51 | − 8 11.8 | −14.9 | | | |
| 28 | O | 3 27.8 | 13 50 36 | −64.41 | 119.83 | −11 6.3 | −14.2 | | | |
| | U | 15 49.8 | 14 14 39 | −64.70 | 120.76 | −13 51.5 | −13.3 | | | |
| 29 | O | 4 12.1 | 14 38 57 | −65.14 | 122.23 | −16 25.7 | −12.3 | 14 14.3 | −12 58 | 4.5 |
| | U | 16 34.7 | 15 3 35 | −65.69 | 124.14 | −18 47.6 | −11.3 | 14 19.9 | −11 16 | 6.5 |
| 30 | O | 4 57.7 | 15 28 38 | −66.31 | 126.38 | −20 55.9 | −10.1 | 15 1.9 | −16 8 | 6.5 |
| | U | 17 21.2 | 15 54 10 | −66.98 | 128.83 | −22 49.3 | − 8.8 | 15 7.2 | −19 27 | 4.7 |
| 31 | O | 5 45.2 | 16 20 12 | −67.66 | 131.35 | −24 26.5 | − 7.4 | 15 48.7 | −23 43 | 5.3 |
| | U | 18 9.7 | 16 46 43 | −68.31 | 133.77 | −25 46.3 | − 5.9 | 15 55.1 | −22 22 | 2.5 |
| Sept. 1 | O | 6 34.7 | 17 13 42 | −68.86 | 135.91 | −26 47.5 | − 4.3 | 16 36.2 | −24 18 | 6.1 |
| | U | 19 0.0 | 17 41 4 | −69.28 | 137.62 | −27 29.2 | − 2.6 | 16 54.5 | −24 57 | 6.3 |
| 2 | O | 7 25.6 | 18 8 43 | −69.55 | 138.76 | −27 50.6 | − 0.9 | 17 37.7 | −27 51 | 6.3 |
| | U | 19 51.4 | 18 36 32 | −69.64 | 139.25 | −27 51.3 | + 0.8 | 17 42.0 | −27 48 | var. |
| 3 | O | 8 17.2 | 19 4 23 | −69.55 | 139.04 | −27 30.9 | + 2.6 | 18 23.4 | −26 38 | 6.5 |
| | U | 20 42.9 | 19 32 6 | −69.29 | 138.16 | −26 49.6 | + 4.3 | 18 40.1 | −27 5 | 3.3 |
| 4 | O | 9 8.3 | 19 59 35 | −68.87 | 136.69 | −25 47.9 | + 6.0 | 19 31.3 | −25 5 | 4.6 |
| | U | 21 33.4 | 20 26 44 | −68.32 | 134.76 | −24 26.5 | + 7.6 | 19 50.4 | −26 32 | 4.8 |
| 5 | O | 9 58.1 | 20 53 28 | −67.70 | 132.53 | −22 46.4 | + 9.1 | 20 27.6 | −25 15 | 6.2 |
| | U | 22 22.3 | 21 19 44 | −67.04 | 130.16 | −20 48.8 | +10.5 | 20 32.6 | −25 25 | 6.3 |

Aug. 20 $23^h$ Perigäum. Sept. 1 $20^h$ Apogäum.

## Mittlerer Mittag und Mitternacht.

| Datum | Wahre AR. | Diff. | Wahre Dekl. | Diff. | Log. sin. A. H. Par. | Diff. | Halbm. |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ° ′ ″ | | | ′ ″ |
| Sept. 5.0 | 20 32 1.99 | 25 45.75 | −24 8 12.4 | +1 39 56.9 | 8.20373 | +179 | 14 58.6 |
| 5.5 | 20 57 47.74 | 25 20.43 | 22 28 15.5 | 1 56 5.8 | 8.20552 | 192 | 15 2.3 |
| 6.0 | 21 23 8.17 | 24 54.84 | 20 32 9.7 | 2 10 55.9 | 8.20744 | 204 | 15 6.3 |
| 6.5 | 21 48 3.01 | 24 30.60 | 18 21 13.8 | 2 24 19.0 | 8.20948 | 211 | 15 10.5 |
| 7.0 | 22 12 33.61 | 24 9.16 | 15 56 54.8 | 2 36 7.9 | 8.21159 | 215 | 15 14.9 |
| 7.5 | 22 36 42.77 | 23 51.80 | 13 20 46.9 | 2 46 17.0 | 8.21374 | 216 | 15 19.5 |
| 8.0 | 23 0 34.57 | 23 39.58 | 10 34 29.9 | 2 54 40.7 | 8.21590 | 213 | 15 24.1 |
| 8.5 | 23 24 14.15 | 23 33.35 | 7 39 49.2 | 3 1 14.4 | 8.21803 | 208 | 15 28.6 |
| 9.0 | 23 47 47.50 | 23 33.92 | 4 38 34.8 | 3 5 52.5 | 8.22011 | 199 | 15 33.1 |
| 9.5 | 0 11 21.42 | 23 41.75 | − 1 32 42.3 | +3 8 28.9 | 8.22210 | +190 | 15 37.4 |
| 10.0 | 0 35 3.17 | 23 57.31 | + 1 35 46.6 | 3 8 58.1 | 8.22400 | 179 | 15 41.5 |
| 10.5 | 0 59 0.48 | 24 20.87 | 4 44 44.7 | 3 7 12.7 | 8.22579 | 167 | 15 45.4 |
| 11.0 | 1 23 21.35 | 24 52.44 | 7 51 57.4 | 3 3 5.1 | 8.22746 | 154 | 15 49.0 |
| 11.5 | 1 48 13.79 | 25 31.76 | 10 55 2.5 | 2 56 27.0 | 8.22900 | 141 | 15 52.4 |
| 12.0 | 2 13 45.55 | 26 18.25 | 13 51 29.5 | 2 47 9.9 | 8.23041 | 128 | 15 55.5 |
| 12.5 | 2 40 3.80 | 27 10.68 | 16 38 39.4 | 2 35 6.8 | 8.23169 | 114 | 15 58.3 |
| 13.0 | 3 7 14.48 | 28 7.22 | 19 13 46.2 | 2 20 12.1 | 8.23283 | 101 | 16 0.8 |
| 13.5 | 3 35 21.70 | 29 5.28 | 21 33 58.3 | 2 2 24.4 | 8.23384 | 88 | 16 3.1 |
| 14.0 | 4 4 26.98 | 30 1.53 | 23 36 22.7 | 1 41 48.7 | 8.23472 | 75 | 16 5.0 |
| 14.5 | 4 34 28.51 | 30 51.91 | 25 18 11.4 | +1 18 38.1 | 8.23547 | + 62 | 16 6.7 |
| 15.0 | 5 5 20.42 | 31 32.36 | +26 36 49.5 | 0 53 16.3 | 8.23609 | 49 | 16 8.1 |
| 15.5 | 5 36 52.78 | 31 59.00 | 27 30 5.8 | +0 26 17.4 | 8.23658 | 33 | 16 9.2 |
| 16.0 | 6 8 51.78 | 32 9.17 | 27 56 23.2 | −0 1 34.3 | 8.23691 | 18 | 16 9.9 |
| 16.5 | 6 41 0.95 | 32 1.75 | 27 54 48.9 | 0 29 29.5 | 8.23709 | + 2 | 16 10.3 |
| 17.0 | 7 13 2.70 | 31 37.49 | 27 25 19.4 | 0 56 38.0 | 8.23711 | − 17 | 16 10.4 |
| 17.5 | 7 44 40.19 | 30 58.92 | 26 28 41.4 | 1 22 13.3 | 8.23694 | 37 | 16 10.0 |
| 18.0 | 8 15 39.11 | 30 9.57 | 25 6 28.1 | 1 45 37.2 | 8.23657 | 58 | 16 9.2 |
| 18.5 | 8 45 48.68 | 29 13.68 | 23 20 50.9 | 2 6 22.3 | 8.23599 | 81 | 16 7.9 |
| 19.0 | 9 15 2.36 | 28 15.20 | 21 14 28.6 | 2 24 11.6 | 8.23518 | 103 | 16 6.1 |
| 19.5 | 9 43 17.56 | 27 17.61 | 18 50 17.0 | −2 38 58.0 | 8.23415 | −127 | 16 3.8 |
| 20.0 | 10 10 35.17 | 26 23.70 | +16 11 19.0 | 2 50 41.4 | 8.23288 | 150 | 16 1.0 |
| 20.5 | 10 36 58.87 | 25 35.35 | 13 20 37.6 | 2 59 27.0 | 8.23138 | 173 | 15 57.7 |
| 21.0 | 11 2 34.22 | 24 53.81 | 10 21 10.6 | 3 5 24.0 | 8.22965 | 194 | 15 53.9 |
| 21.5 | 11 27 28.03 | 24 19.85 | 7 15 46.6 | 3 8 42.4 | 8.22771 | 212 | 15 49.6 |
| 22.0 | 11 51 47.88 | 23 53.77 | 4 7 4.2 | 3 9 34.1 | 8.22559 | 227 | 15 45.0 |
| 22.5 | 12 15 41.65 | 23 35.51 | + 0 57 30.1 | 3 8 10.0 | 8.22332 | 239 | 15 40.1 |
| 23.0 | 12 39 17.16 | 23 24.91 | − 2 10 39.9 | 3 4 40.8 | 8.22093 | 248 | 15 34.9 |
| 23.5 | 13 2 42.07 | 23 21.60 | 5 15 20.7 | 2 59 16.0 | 8.21845 | 251 | 15 29.6 |
| 24.0 | 13 26 3.67 | 23 25.06 | 8 14 36.7 | 2 52 4.3 | 8.21594 | 251 | 15 24.2 |
| 24.5 | 13 49 28.73 | | 11 6 41.0 | | 8.21343 | | 15 18.9 |

Sept. 8 4h 50.3m Vollmond. Sept. 15 6h 44.4m Letzt. Viert. Sept. 22 3h 31.0m Neumond.

Im Meridian von Berlin.

| Datum und Kulmination | | Mittlere Zeit | AR. | Halbe Durchg.-D. Sternzeit | Bew. in 1h Länge | Dekl. | Bew. in 1h Länge | Vergl.-Sterne AR. | Vergl.-Sterne Dekl. | Gr. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | h m | h m s | s | s | ° ′ | ′ | h m | ° ′ | |
| Sept. 5 | O | 9 58.1 | 20 53 28 | −67.70 | 132.53 | −22 46.4 | + 9.1 | 20 27.6 | −25 15 | 6.2 |
| | U | 22 22.3 | 21 19 44 | −67.04 | 130.16 | −20 48.8 | +10.5 | 20 32.6 | −25 25 | 6.3 |
| 6 | O | 10 46.1 | 21 45 31 | −66.39 | 127.83 | −18 35.3 | +11.8 | 21 22.3 | −21 35 | 6.0 |
| | U | 23 9.4 | 22 10 51 | −65.80 | 125.68 | −16 7.5 | +12.9 | 21 25.1 | −19 32 | 6.5 |
| 7 | O | 11 32.2 | 22 35 47 | −65.29 | 123.85 | −13 27.0 | +13.9 | 21 57.6 | −17 24 | 6.5 |
| | U | 23 54.8 | 23 0 24 | −64.91 | 122.46 | −10 35.7 | +14.7 | 22 19.7 | −13 59 | 5.9 |
| 8 | O | 12 17.2 | 23 24 48 | +64.68 | 121.59 | − 7 35.6 | +15.3 | 22 48.8 | −12 5 | 5.8 |
| — | | — | — | — | — | — | — | 23 10.1 | −11 10 | 6.3 |
| 9 | U | 0 39.4 | 23 49 5 | +64.62 | 121.35 | − 4 28.5 | +15.8 | 23 48.4 | − 3 39 | 6.1 |
| | O | 13 1.7 | 0 13 23 | +64.75 | 121.79 | − 1 16.6 | +16.1 | 23 54.2 | − 4 3 | 5.0 |
| 10 | U | 1 24.1 | 0 37 50 | +65.09 | 122.95 | + 1 57.9 | +16.3 | 0 31.0 | − 1 0 | 5.4 |
| | O | 13 46.8 | 1 2 36 | +65.63 | 124.86 | + 5 12.7 | +16.2 | 0 46.8 | + 2 54 | 6.5 |
| 11 | U | 2 10.0 | 1 27 48 | +66.38 | 127.53 | + 8 25.4 | +15.9 | 1 25.6 | + 5 41 | 5.0 |
| | O | 14 33.8 | 1 53 37 | +67.32 | 130.96 | +11 33.4 | +15.4 | 1 40.7 | + 8 43 | 4.5 |
| 12 | U | 2 58.4 | 2 20 12 | +68.45 | 135.11 | +14 33.9 | +14.6 | 2 8.2 | +14 52 | 5.8 |
| | O | 15 23.8 | 2 47 40 | +69.72 | 139.87 | +17 23.9 | +13.6 | 2 28.1 | +14 38 | 6.1 |
| 13 | U | 3 50.2 | 3 16 8 | +71.09 | 145.10 | +20 0.3 | +12.4 | 3 19.3 | +20 29 | 6.0 |
| | O | 16 17.7 | 3 45 40 | +72.49 | 150.53 | +22 20.0 | +10.8 | 3 33.9 | +20 38 | 6.5 |
| 14 | U | 4 46.3 | 4 16 17 | +73.84 | 155.85 | +24 19.5 | + 9.0 | 4 17.2 | +25 25 | 5.3 |
| | O | 17 15.9 | 4 47 55 | +75.04 | 160.66 | +25 55.7 | + 7.0 | 4 22.0 | +22 48 | 5.4 |
| 15 | U | 5 46.3 | 5 20 26 | +75.98 | 164.52 | +27 5.7 | + 4.7 | 5 23.8 | +25 5 | 5.4 |
| | O | 18 17.4 | 5 53 36 | +76.58 | 167.02 | +27 47.3 | + 2.2 | 5 30.4 | +27 36 | 6.5 |
| 16 | U | 6 48.9 | 6 27 7 | +76.78 | 167.87 | +27 58.9 | − 0.3 | 6 29.6 | +28 6 | 5.1 |
| | O | 19 20.4 | 7 0 38 | +76.56 | 166.97 | +27 40.1 | − 2.8 | 6 34.0 | +28 21 | 5.8 |
| 17 | U | 7 51.5 | 7 33 49 | +75.93 | 164.43 | +26 51.2 | − 5.3 | 7 30.5 | +27 6 | 4.3 |
| | O | 20 21.9 | 8 6 21 | +74.96 | 160.53 | +25 33.9 | − 7.6 | 7 38.7 | +26 0 | 5.5 |
| 18 | U | 8 51.5 | 8 38 0 | +73.75 | 155.67 | +23 50.6 | − 9.6 | | | |
| | O | 21 20.1 | 9 8 38 | +72.38 | 150.30 | +21 44.2 | −11.4 | | | |
| 19 | U | 9 47.6 | 9 38 11 | +70.97 | 144.82 | +19 18.0 | −12.9 | | | |
| | O | 22 14.0 | 10 6 38 | +69.59 | 139.55 | +16 35.5 | −14.1 | | | |
| 20 | U | 10 39.4 | 10 34 4 | +68.30 | 134.72 | +13 40.2 | −15.0 | | | |
| | O | 23 3.9 | 11 0 36 | +67.16 | 130.51 | +10 35.4 | −15.7 | | | |
| 21 | U | 11 27.6 | 11 26 22 | +66.21 | 127.00 | + 7 24.2 | −16.1 | | | |
| | O | 23 50.7 | 11 51 29 | +65.46 | 124.24 | + 4 9.5 | −16.3 | | | |
| 22 | U | 12 13.3 | 12 16 8 | −64.91 | 122.30 | + 0 54.0 | −16.3 | | | |
| — | | — | — | — | — | — | — | | | |
| 23 | O | 0 35.6 | 12 40 27 | −64.56 | 121.00 | − 2 19.9 | −16.0 | | | |
| | U | 12 57.7 | 13 4 34 | −64.41 | 120.40 | − 5 29.9 | −15.6 | | | |
| 24 | O | 1 19.8 | 13 28 39 | −64.46 | 120.46 | − 8 34.1 | −15.0 | | | |
| | U | 13 41.9 | 13 52 48 | −64.68 | 121.13 | −11 30.4 | −14.3 | | | |

Sept. 16 19h Perigäum.

## Mittlerer Mittag und Mitternacht.

| Datum | Wahre AR. | Diff. | Wahre Dekl. | Diff. | Log. sin. A. H. Par. | Diff. | Halbm. |
|---|---|---|---|---|---|---|---|
| Sept. 24.0 | 13h 26m 3.67s | | − 8° 14′ 36.7″ | | 8.21594 | | 15′ 24.2″ |
| | | 23m 25.06s | | −2° 52′ 4.3″ | | −251 | |
| 24.5 | 13 49 28.73 | | 11 6 41.0 | | 8.21343 | | 15 18.9 |
| | | 23 34.69 | | 2 43 13.4 | | 245 | |
| 25.0 | 14 13 3.42 | | 13 49 54.4 | | 8.21098 | | 15 13.7 |
| | | 23 49.69 | | 2 32 49.8 | | 235 | |
| 25.5 | 14 36 53.11 | | 16 22 44.2 | | 8.20863 | | 15 8.8 |
| | | 24 9.17 | | 2 20 59.0 | | 221 | |
| 26.0 | 15 1 2.28 | | 18 43 43.2 | | 8.20642 | | 15 4.2 |
| | | 24 32.06 | | 2 7 46.3 | | 202 | |
| 26.5 | 15 25 34.34 | | 20 51 29.5 | | 8.20440 | | 15 0.0 |
| | | 24 57.02 | | 1 53 17.2 | | 179 | |
| 27.0 | 15 50 31.36 | | 22 44 46.7 | | 8.20261 | | 14 56.3 |
| | | 25 22.72 | | 1 37 37.2 | | 155 | |
| 27.5 | 16 15 54.08 | | 24 22 23.9 | | 8.20106 | | 14 53.1 |
| | | 25 47.53 | | 1 20 52.7 | | 125 | |
| 28.0 | 16 41 41.61 | | 25 43 16.6 | | 8.19981 | | 14 50.5 |
| | | 26 9.88 | | 1 3 12.2 | | 94 | |
| 28.5 | 17 7 51.49 | | 26 46 28.8 | | 8.19887 | | 14 48.6 |
| | | 26 28.24 | | −0 44 45.0 | | − 62 | |
| 29.0 | 17 34 19.73 | | −27 31 13.8 | | 8.19825 | | 14 47.3 |
| | | 26 41.37 | | 0 25 43.2 | | − 27 | |
| 29.5 | 18 1 1.10 | | 27 56 57.0 | | 8.19798 | | 14 46.8 |
| | | 26 48.23 | | −0 6 19.1 | | + 8 | |
| 30.0 | 18 27 49.33 | | 28 3 16.1 | | 8.19806 | | 14 46.9 |
| | | 26 48.40 | | +0 13 12.6 | | 43 | |
| 30.5 | 18 54 37.73 | | 27 50 3.5 | | 8.19849 | | 14 47.8 |
| | | 26 41.88 | | 0 32 37.8 | | 77 | |
| Okt. 1.0 | 19 21 19.61 | | 27 17 25.7 | | 8.19926 | | 14 49.4 |
| | | 26 29.30 | | 0 51 41.9 | | 111 | |
| 1.5 | 19 47 48.91 | | 26 25 43.8 | | 8.20037 | | 14 51.6 |
| | | 26 11.64 | | 1 10 12.1 | | 142 | |
| 2.0 | 20 14 0.55 | | 25 15 31.7 | | 8.20179 | | 14 54.5 |
| | | 25 50.30 | | 1 27 56.1 | | 172 | |
| 2.5 | 20 39 50.85 | | 23 47 35.6 | | 8.20351 | | 14 58.1 |
| | | 25 26.82 | | 1 44 44.0 | | 200 | |
| 3.0 | 21 5 17.67 | | 22 2 51.6 | | 8.20551 | | 15 2.3 |
| | | 25 2.83 | | 2 0 27.2 | | 222 | |
| 3.5 | 21 30 20.50 | | 20 2 24.4 | | 8.20773 | | 15 6.9 |
| | | 24 39.90 | | +2 14 58.1 | | +241 | |
| 4.0 | 21 55 0.40 | | −17 47 26.3 | | 8.21014 | | 15 11.9 |
| | | 24 19.44 | | 2 28 9.7 | | 256 | |
| 4.5 | 22 19 19.84 | | 15 19 16.6 | | 8.21270 | | 15 17.3 |
| | | 24 2.76 | | 2 39 55.9 | | 266 | |
| 5.0 | 22 43 22.60 | | 12 39 20.7 | | 8.21536 | | 15 23.0 |
| | | 23 50.94 | | 2 50 9.4 | | 271 | |
| 5.5 | 23 7 13.54 | | 9 49 11.3 | | 8.21807 | | 15 28.8 |
| | | 23 44.89 | | 2 58 42.7 | | 272 | |
| 6.0 | 23 30 58.43 | | 6 50 28.6 | | 8.22079 | | 15 34.6 |
| | | 23 45.40 | | 3 5 27.7 | | 266 | |
| 6.5 | 23 54 43.83 | | 3 45 0.9 | | 8.22345 | | 15 40.3 |
| | | 23 53.02 | | 3 10 14.8 | | 256 | |
| 7.0 | 0 18 36.85 | | − 0 34 46.1 | | 8.22601 | | 15 45.8 |
| | | 24 8.32 | | 3 12 53.0 | | 241 | |
| 7.5 | 0 42 45.17 | | + 2 38 6.9 | | 8.22842 | | 15 51.1 |
| | | 24 31.53 | | 3 13 11.4 | | 221 | |
| 8.0 | 1 7 16.70 | | 5 51 18.3 | | 8.23063 | | 15 56.0 |
| | | 25 2.76 | | 3 10 57.5 | | 198 | |
| 8.5 | 1 32 19.46 | | 9 2 15.8 | | 8.23261 | | 16 0.4 |
| | | 25 41.80 | | +3 5 59.5 | | +172 | |
| 9.0 | 1 58 1.26 | | +12 8 15.3 | | 8.23433 | | 16 4.2 |
| | | 26 28.03 | | 2 58 5.8 | | 144 | |
| 9.5 | 2 24 29.29 | | 15 6 21.1 | | 8.23577 | | 16 7.4 |
| | | 27 20.31 | | 2 47 7.2 | | 115 | |
| 10.0 | 2 51 49.60 | | 17 53 28.3 | | 8.23692 | | 16 9.9 |
| | | 28 16.78 | | 2 32 57.9 | | 86 | |
| 10.5 | 3 20 6.38 | | 20 26 26.2 | | 8.23778 | | 16 11.8 |
| | | 29 14.86 | | 2 15 37.1 | | 57 | |
| 11.0 | 3 49 21.24 | | 22 42 3.3 | | 8.23835 | | 16 13.1 |
| | | 30 11.07 | | 1 55 11.7 | | 29 | |
| 11.5 | 4 19 32.31 | | 24 37 15.0 | | 8.23864 | | 16 13.8 |
| | | 31 1.37 | | 1 31 58.6 | | + 3 | |
| 12.0 | 4 50 33.68 | | 26 9 13.6 | | 8.23867 | | 16 13.9 |
| | | 31 41.49 | | 1 6 25.2 | | − 21 | |
| 12.5 | 5 22 15.17 | | 27 15 38.8 | | 8.23846 | | 16 13.4 |
| | | 32 7.51 | | 0 39 10.3 | | 42 | |
| 13.0 | 5 54 22.68 | | 27 54 49.1 | | 8.23804 | | 16 12.4 |
| | | 32 16.66 | | 0 11 0.8 | | 61 | |
| 13.5 | 6 26 39.34 | | 28 5 49.9 | | 8.23743 | | 16 11.1 |

Sept. 30 0h 1.6m Erstes Viertel. Okt. 7 17h 4.7m Vollmond.

Im Meridian von Berlin.

| Datum und Kulmination | | Mittlere Zeit | AR. | Halbe Durchg.-D. Sternzeit | Bew. in 1h Länge | Dekl. | Bew. in 1h Länge | Vergl.-Sterne AR. | Vergl.-Sterne Dekl. | Vergl.-Sterne Gr. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | h m | h m s | s | s | ° ′ | ′ | h m | ° ′ | |
| Sept. 24 | O | 1 19.8 | 13 28 39 | −64.46 | 120.46 | − 8 34.1 | −15.0 | | | |
| | U | 13 41.9 | 13 52 48 | −64.68 | 121.13 | −11 30.4 | −14.3 | | | |
| 25 | O | 2 4.2 | 14 17 9 | −65.04 | 122.34 | −14 17.1 | −13.4 | | | |
| | U | 14 26.8 | 14 41 47 | −65.53 | 124.00 | −16 52.5 | −12.4 | | | |
| 26 | O | 2 49.8 | 15 6 47 | −66.12 | 126.02 | −19 15.1 | −11.3 | | | |
| | U | 15 13.2 | 15 32 13 | −66.77 | 128.29 | −21 23.4 | −10.0 | | | |
| 27 | O | 3 37.0 | 15 58 8 | −67.44 | 130.66 | −23 15.9 | − 8.7 | 15 27.5 | −19 22 | 5.4 |
| | U | 16 1.3 | 16 24 31 | −68.09 | 132.98 | −24 51.4 | − 7.2 | 15 33.1 | −20 43 | 5.9 |
| 28 | O | 4 26.1 | 16 51 20 | −68.67 | 135.10 | −26 8.7 | − 5.6 | 16 24.8 | −24 55 | 4.8 |
| | U | 16 51.3 | 17 18 32 | −69.15 | 136.86 | −27 6.8 | − 4.0 | 16 36.2 | −24 18 | 6.1 |
| 29 | O | 5 16.8 | 17 46 3 | −69.49 | 138.14 | −27 44.9 | − 2.3 | 17 17.8 | −28 3 | 5.4 |
| | U | 17 42.5 | 18 13 46 | −69.67 | 138.82 | −28 2.4 | − 0.6 | 17 26.2 | −26 12 | 6.0 |
| 30 | O | 6 8.2 | 18 41 32 | −69.68 | 138.84 | −27 59.0 | + 1.2 | 18 11.8 | −28 41 | 6.0 |
| | U | 18 33.9 | 19 9 15 | −69.51 | 138.23 | −27 34.6 | + 2.9 | 18 16.4 | −28 28 | 6.1 |
| Okt. 1 | O | 6 59.4 | 19 36 47 | −69.18 | 137.04 | −26 49.6 | + 4.6 | 19 10.1 | −25 25 | 4.9 |
| | U | 19 24.6 | 20 4 2 | −68.72 | 135.37 | −25 44.5 | + 6.2 | 19 19.0 | −28 2 | 5.9 |
| 2 | O | 7 49.4 | 20 30 54 | −68.16 | 133.36 | −24 20.1 | + 7.8 | 19 50.4 | −26 32 | 4.8 |
| | U | 20 13.8 | 20 57 21 | −67.54 | 131.17 | −22 37.5 | + 9.3 | 19 53.6 | −26 26 | 4.9 |
| 3 | O | 8 37.8 | 21 23 21 | −66.92 | 128.96 | −20 37.8 | +10.7 | 20 47.9 | −24 7 | 6.2 |
| | U | 21 1.4 | 21 48 55 | −66.33 | 126.89 | −18 22.2 | +11.9 | 21 3.5 | −21 33 | 5.3 |
| 4 | O | 9 24.5 | 22 14 6 | −65.81 | 125.08 | −15 52.3 | +13.0 | 21 46.8 | −19 2 | 6.1 |
| | U | 21 47.3 | 22 38 58 | −65.39 | 123.65 | −13 9.6 | +14.0 | 21 57.3 | −18 20 | 6.4 |
| 5 | O | 10 9.9 | 23 3 35 | −65.11 | 122.72 | −10 15.8 | +14.9 | 22 25.6 | −15 2 | 6.1 |
| | U | 22 32.4 | 23 28 5 | −64.99 | 122.36 | − 7 12.6 | +15.6 | 22 43.0 | −14 32 | 5.6 |
| 6 | O | 10 54.8 | 23 52 35 | −65.06 | 122.64 | − 4 2.0 | +16.1 | 23 24.5 | − 9 45 | 6.3 |
| | U | 23 17.4 | 0 17 12 | −65.31 | 123.62 | − 0 46.1 | +16.5 | 23 31.0 | − 7 57 | 6.5 |
| 7 | O | 11 40.2 | 0 42 5 | −65.78 | 125.34 | + 2 32.8 | +16.6 | 0 3.7 | − 2 57 | 6.3 |
| — | | — | — | — | — | — | — | 0 20.0 | − 2 43 | 6.3 |
| 8 | U | 0 3.5 | 1 7 24 | +66.46 | 127.96 | + 5 52.2 | +16.6 | 1 3.8 | + 5 11 | 5.6 |
| | O | 12 27.4 | 1 33 17 | +67.34 | 131.22 | + 9 9.4 | +16.3 | 1 10.1 | + 6 31 | 6.2 |
| 9 | U | 0 52.0 | 1 59 54 | +68.41 | 135.23 | +12 21.4 | +15.7 | 1 57.8 | +13 3 | 6.3 |
| | O | 13 17.4 | 2 27 23 | +69.64 | 139.89 | +15 24.9 | +14.8 | 2 8.2 | +14 52 | 5.8 |
| 10 | U | 1 43.8 | 2 55 51 | +70.98 | 145.05 | +18 16.5 | +13.7 | 2 51.5 | +17 40 | 5.6 |
| | O | 14 11.3 | 3 25 22 | +72.38 | 150.47 | +20 52.6 | +12.3 | 3 2.5 | +17 32 | 6.0 |
| 11 | U | 2 39.9 | 3 55 59 | +73.76 | 155.85 | +23 9.5 | +10.5 | 4 0.1 | +21 46 | 6.1 |
| | O | 15 9.5 | 4 27 38 | +75.00 | 160.77 | +25 3.8 | + 8.5 | 4 7.6 | +22 11 | 6.1 |
| 12 | U | 3 40.0 | 5 0 11 | +76.01 | 164.80 | +26 32.3 | + 6.2 | 4 59.1 | +27 34 | 6.5 |
| | O | 16 11.1 | 5 33 25 | +76.70 | 167.49 | +27 32.5 | + 3.8 | 5 4.2 | +27 55 | 6.0 |
| 13 | U | 4 42.7 | 6 7 3 | +76.98 | 168.54 | +28 2.6 | + 1.2 | 5 55.5 | +27 34 | 6.1 |
| | O | 17 14.3 | 6 40 43 | +76.83 | 167.80 | +28 1.8 | − 1.4 | 6 9.8 | +29 32 | 4.4 |

Sept. 29 $15^h$ Apogäum. Okt. 11 $19^h$ Perigäum.

## Mittlerer Mittag und Mitternacht.

| Datum | Wahre AR. | Diff. | Wahre Dekl. | Diff. | Log. sin. A. H. Par. | Diff. | Halbm. |
|---|---|---|---|---|---|---|---|
| Okt. 13.0 | 5h 54m 22s.68 | 32m 16s.66 | +27° 54′ 49″.1 | +0° 11′ 0″.8 | 8.23804 | −61 | 16′ 12″.4 |
| 13.5 | 6 26 39.34 | 32 7.82 | 28 5 49.9 | −0 17 11.2 | 8.23743 | 77 | 16 11.1 |
| 14.0 | 6 58 47.16 | 31 41.81 | 27 48 38.7 | 0 44 34.7 | 8.23666 | 92 | 16 9.4 |
| 14.5 | 7 30 28.97 | 31 1.19 | 27 4 4.0 | 1 10 24.0 | 8.23574 | 105 | 16 7.3 |
| 15.0 | 8 1 30.16 | 30 9.68 | 25 53 40.0 | 1 34 4.1 | 8.23469 | 116 | 16 5.0 |
| 15.5 | 8 31 39.84 | 29 11.61 | 24 19 35.9 | 1 55 9.9 | 8.23353 | 126 | 16 2.4 |
| 16.0 | 9 0 51.45 | 28 11.01 | 22 24 26.0 | 2 13 28.1 | 8.23227 | 135 | 15 59.6 |
| 16.5 | 9 29 2.46 | 27 11.50 | 20 10 57.9 | 2 28 54.8 | 8.23092 | 142 | 15 56.6 |
| 17.0 | 9 56 13.96 | 26 15.80 | 17 42 3.1 | 2 41 32.1 | 8.22950 | 151 | 15 53.5 |
| 17.5 | 10 22 29.76 | 25 25.89 | 15 0 31.0 | −2 51 26.0 | 8.22799 | −160 | 15 50.2 |
| 18.0 | 10 47 55.65 | 24 43.02 | +12 9 5.0 | 2 58 45.1 | 8.22639 | 167 | 15 46.7 |
| 18.5 | 11 12 38.67 | 24 7.92 | 9 10 19.9 | 3 3 38.6 | 8.22472 | 174 | 15 43.1 |
| 19.0 | 11 36 46.59 | 23 40.86 | 6 6 41.3 | 3 6 15.4 | 8.22298 | 182 | 15 39.3 |
| 19.5 | 12 0 27.45 | 23 21.86 | + 3 0 25.9 | 3 6 43.2 | 8.22116 | 188 | 15 35.4 |
| 20.0 | 12 23 49.31 | 23 10.72 | − 0 6 17.3 | 3 5 8.8 | 8.21928 | 194 | 15 31.3 |
| 20.5 | 12 47 0.03 | 23 7.08 | 3 11 26.1 | 3 1 38.6 | 8.21734 | 198 | 15 27.2 |
| 21.0 | 13 10 7.11 | 23 10.46 | 6 13 4.7 | 2 56 17.6 | 8.21536 | 201 | 15 23.0 |
| 21.5 | 13 33 17.57 | 23 20.24 | 9 9 22.3 | 2 49 9.9 | 8.21335 | 200 | 15 18.7 |
| 22.0 | 13 56 37.81 | 23 35.71 | 11 58 32.2 | 2 40 19.7 | 8.21135 | 198 | 15 14.5 |
| 22.5 | 14 20 13.52 | 23 55.91 | 14 38 51.9 | −2 29 51.0 | 8.20937 | −193 | 15 10.3 |
| 23.0 | 14 44 9.43 | 24 19.81 | −17 8 42.9 | 2 17 47.5 | 8.20744 | 186 | 15 6.3 |
| 23.5 | 15 8 29.24 | 24 46.07 | 19 26 30.4 | 2 4 14.7 | 8.20558 | 175 | 15 2.4 |
| 24.0 | 15 33 15.31 | 25 13.28 | 21 30 45.1 | 1 49 18.0 | 8.20383 | 162 | 14 58.8 |
| 24.5 | 15 58 28.59 | 25 39.79 | 23 20 3.1 | 1 33 5.4 | 8.20221 | 143 | 14 55.5 |
| 25.0 | 16 24 8.38 | 26 3.92 | 24 53 8.5 | 1 15 46.3 | 8.20078 | 123 | 14 52.5 |
| 25.5 | 16 50 12.30 | 26 23.99 | 26 8 54.8 | 0 57 32.1 | 8.19955 | 100 | 14 50.0 |
| 26.0 | 17 16 36.29 | 26 38.64 | 27 6 26.9 | 0 38 36.9 | 8.19855 | 73 | 14 47.9 |
| 26.5 | 17 43 14.93 | 26 46.71 | 27 45 3.8 | −0 19 15.4 | 8.19782 | 45 | 14 46.4 |
| 27.0 | 18 10 1.64 | 26 47.68 | 28 4 19.2 | +0 0 16.4 | 8.19737 | −15 | 14 45.5 |
| 27.5 | 18 36 49.32 | 26 41.50 | 28 4 2.8 | +0 19 42.6 | 8.19722 | +18 | 14 45.2 |
| 28.0 | 19 3 30.82 | 26 28.71 | −27 44 20.2 | 0 38 48.0 | 8.19740 | 51 | 14 45.6 |
| 28.5 | 19 29 59.53 | 26 10.32 | 27 5 32.2 | 0 57 19.3 | 8.19791 | 86 | 14 46.6 |
| 29.0 | 19 56 9.85 | 25 47.83 | 26 8 12.9 | 1 15 5.6 | 8.19877 | 121 | 14 48.4 |
| 29.5 | 20 21 57.68 | 25 22.83 | 24 53 7.3 | 1 31 58.2 | 8.19998 | 155 | 14 50.8 |
| 30.0 | 20 47 20.51 | 24 57.05 | 23 21 9.1 | 1 47 50.7 | 8.20153 | 188 | 14 54.0 |
| 30.5 | 21 12 17.56 | 24 32.14 | 21 33 18.4 | 2 2 38.5 | 8.20341 | 219 | 14 57.9 |
| 31.0 | 21 36 49.70 | 24 9.63 | 19 30 39.9 | 2 16 17.8 | 8.20560 | 247 | 15 2.4 |
| 31.5 | 22 0 59.33 | 23 50.84 | 17 14 22.1 | 2 28 45.6 | 8.20807 | 273 | 15 7.6 |
| Nov. 1.0 | 22 24 50.17 | 23 36.99 | 14 45 36.5 | 2 39 58.0 | 8.21080 | 295 | 15 13.3 |
| 1.5 | 22 48 27.16 | | 12 5 38.5 | | 8.21375 | | 15 19.5 |

Okt. 14 12h 39m.6 Letzt. Viert. Okt. 21 17h 2m.9 Neumond. Okt. 29 19h 35m.1 Erst. Viert.

## Im Meridian von Berlin.

| Datum und Kulmination | Mittlere Zeit | AR. | Halbe Durchg.-D. Sternzeit | Bew. in 1h Länge | Dekl. | Bew. in 1h Länge | Vergl.-Sterne AR. | Vergl.-Sterne Dekl. | Vergl.-Sterne Gr. |
|---|---|---|---|---|---|---|---|---|---|
| | h m | h m s | s | s | ° ′ | ′ | h m | ° ′ | |
| Okt. 13 *U* | 4 42.7 | 6 7 3 | +76.98 | 168.54 | +28 2.6 | + 1.2 | 5 55.5 | +27 34 | 6.1 |
| *O* | 17 14.3 | 6 40 43 | +76.83 | 167.80 | +28 1.8 | − 1.4 | 6 9.8 | +29 32 | 4.4 |
| 14 *U* | 5 45.6 | 7 14 4 | +76.26 | 165.35 | +27 30.6 | − 3.9 | 7 11.6 | +26 51 | 6.5 |
| *O* | 18 16.3 | 7 46 48 | +75.32 | 161.46 | +26 30.4 | − 6.2 | 7 19.1 | +27 49 | 5.7 |
| 15 *U* | 6 46.1 | 8 18 38 | +74.11 | 156.53 | +25 3.4 | − 8.3 | 8 15.3 | +24 18 | 5.9 |
| *O* | 19 14.8 | 8 49 25 | +72.73 | 151.01 | +23 12.4 | −10.2 | 8 23.4 | +24 26 | 6.1 |
| 16 *U* | 7 42.4 | 9 19 5 | +71.27 | 145.32 | +21 0.6 | −11.8 | 9 8.6 | +21 39 | 6.1 |
| *O* | 20 8.9 | 9 47 37 | +69.83 | 139.82 | +18 31.4 | −13.1 | 9 33.9 | +20 42 | 6.7 |
| 17 *U* | 8 34.3 | 10 15 5 | +68.48 | 134.75 | +15 47.8 | −14.1 | | | |
| *O* | 20 58.8 | 10 41 36 | +67.26 | 130.29 | +12 53.0 | −14.9 | | | |
| 18 *U* | 9 22.5 | 11 7 18 | +66.22 | 126.55 | + 9 49.9 | −15.5 | | | |
| *O* | 21 45.5 | 11 32 19 | +65.37 | 123.56 | + 6 41.3 | −15.9 | | | |
| 19 *U* | 10 7.9 | 11 56 48 | +64.73 | 121.34 | + 3 29.5 | −16.1 | | | |
| *O* | 22 30.0 | 12 20 55 | +64.29 | 119.88 | + 0 17.0 | −16.0 | | | |
| 20 *U* | 10 51.9 | 12 44 49 | +64.07 | 119.16 | − 2 54.0 | −15.8 | | | |
| *O* | 23 13.7 | 13 8 38 | +64.04 | 119.13 | − 6 1.5 | −15.4 | | | |
| 21 *U* | 11 35.5 | 13 32 30 | +64.20 | 119.73 | − 9 3.5 | −14.9 | | | |
| *O* | 23 57.5 | 13 56 33 | −64.52 | 120.83 | −11 58.0 | −14.2 | | | |
| 22 *U* | 12 19.8 | 14 20 53 | −64.98 | 122.48 | −14 43.1 | −13.3 | | | |
| — | — | — | — | — | — | — | | | |
| 23 *O* | 0 42.5 | 14 45 35 | −65.56 | 124.52 | −17 17.2 | −12.3 | | | |
| *U* | 13 5.6 | 15 10 44 | −66.22 | 126.86 | −19 38.4 | −11.2 | | | |
| 24 *O* | 1 29.2 | 15 36 21 | −66.91 | 129.35 | −21 45.1 | − 9.9 | | | |
| *U* | 13 53.3 | 16 2 29 | −67.60 | 131.85 | −23 35.8 | − 8.5 | | | |
| 25 *O* | 2 17.8 | 16 29 6 | −68.26 | 134.18 | −25 9.0 | − 7.0 | | | |
| *U* | 14 42.8 | 16 56 9 | −68.82 | 136.17 | −26 23.5 | − 5.4 | | | |
| 26 *O* | 3 8.2 | 17 23 33 | −69.25 | 137.69 | −27 18.4 | − 3.7 | | | |
| *U* | 15 33.8 | 17 51 11 | −69.52 | 138.59 | −27 52.8 | − 2.0 | | | |
| 27 *O* | 3 59.5 | 18 18 56 | −69.61 | 138.81 | −28 6.4 | − 0.3 | 17 53.0 | −28 45 | 5.8 |
| *U* | 16 25.2 | 18 46 40 | −69.51 | 138.35 | −27 59.0 | + 1.5 | 18 2.5 | −28 28 | 4.7 |
| 28 *O* | 4 50.7 | 19 14 14 | −69.24 | 137.24 | −27 30.9 | + 3.2 | 18 40.1 | −27 5 | 3.3 |
| *U* | 17 16.0 | 19 41 31 | −68.82 | 135.58 | −26 42.6 | + 4.8 | 18 49.8 | −26 24 | 2.1 |
| 29 *O* | 5 40.9 | 20 8 26 | −68.29 | 133.51 | −25 34.8 | + 6.4 | 19 31.3 | −25 5 | 4.6 |
| *U* | 18 5.3 | 20 34 54 | −67.68 | 131.20 | −24 8.5 | + 7.9 | 19 50.4 | −26 32 | 4.8 |
| 30 *O* | 6 29.2 | 21 0 53 | −67.04 | 128.82 | −22 24.8 | + 9.3 | 20 34.9 | −24 6 | 6.3 |
| *U* | 18 52.7 | 21 26 24 | −66.41 | 126.52 | −20 24.8 | +10.6 | 20 47.8 | −24 7 | 6.2 |
| 31 *O* | 7 15.7 | 21 51 29 | −65.83 | 124.47 | −18 9.7 | +11.8 | 21 25.0 | −19 32 | 6.5 |
| *U* | 19 38.4 | 22 16 12 | −65.35 | 122.79 | −15 41.0 | +12.9 | 21 29.9 | −20 29 | 5.7 |
| Nov. 1 *O* | 8 0.8 | 22 40 38 | −65.00 | 121.58 | −12 59.9 | +13.9 | 22 19.7 | −13 59 | 5.9 |
| *U* | 20 23.0 | 23 4 52 | −64.79 | 120.94 | −10 7.9 | +14.8 | 22 25.3 | −13 22 | 6.2 |

Okt. 27 11h Apogäum.

## Mittlerer Mittag und Mitternacht.

| Datum | Wahre AR. | Diff. | Wahre Dekl. | Diff. | Log. sin. A. H. Par. | Diff. | Halbm. |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ° ′ ″ | | | ′ ″ |
| Nov. 1.0 | 22 24 50.17 | 23 36.99 | −14 45 36.5 | +2 39 58.0 | 8.21080 | +295 | 15 13.3 |
| 1.5 | 22 48 27.16 | 23 29.00 | 12 5 38.5 | 2 49 50.0 | 8.21375 | 311 | 15 19.5 |
| 2.0 | 23 11 56.16 | 23 27.77 | 9 15 48.5 | 2 58 15.3 | 8.21686 | 323 | 15 26.1 |
| 2.5 | 23 35 23.93 | 23 33.94 | 6 17 33.2 | 3 5 5.0 | 8.22009 | 328 | 15 33.0 |
| 3.0 | 23 58 57.87 | 23 48.17 | 3 12 28.2 | 3 10 7.9 | 8.22337 | 327 | 15 40.1 |
| 3.5 | 0 22 46.04 | 24 10.86 | − 0 2 20.3 | 3 13 9.7 | 8.22664 | 319 | 15 47.2 |
| 4.0 | 0 46 56.90 | 24 42.34 | + 3 10 49.4 | 3 13 54.7 | 8.22983 | 304 | 15 54.2 |
| 4.5 | 1 11 39.24 | 25 22.65 | 6 24 44.1 | 3 12 4.5 | 8.23287 | 282 | 16 0.9 |
| 5.0 | 1 37 1.89 | 26 11.47 | 9 36 48.6 | 3 7 20.3 | 8.23569 | 254 | 16 7.2 |
| 5.5 | 2 3 13.36 | | 12 44 8.9 | | 8.23823 | | 16 12.9 |
| | | 27 8.01 | | +2 59 22.6 | | +221 | |
| 6.0 | 2 30 21.37 | 28 10.69 | +15 43 31.5 | 2 47 55.9 | 8.24044 | 181 | 16 17.8 |
| 6.5 | 2 58 32.06 | 29 17.03 | 18 31 27.4 | 2 32 49.0 | 8.24225 | 139 | 16 21.9 |
| 7.0 | 3 27 49.09 | 30 23.52 | 21 4 16.4 | 2 13 58.8 | 8.24364 | 94 | 16 25.1 |
| 7.5 | 3 58 12.61 | 31 25.61 | 23 18 15.2 | 1 51 35.9 | 8.24458 | 48 | 16 27.2 |
| 8.0 | 4 29 38.22 | 32 18.13 | 25 9 51.1 | 1 26 3.4 | 8.24506 | + 4 | 16 28.3 |
| 8.5 | 5 1 56.35 | 32 55.95 | 26 35 54.5 | 0 58 2.7 | 8.24510 | − 39 | 16 28.4 |
| 9.0 | 5 34 52.30 | 33 14.80 | 27 33 57.2 | +0 28 27.7 | 8.24471 | 79 | 16 27.5 |
| 9.5 | 6 8 7.10 | 33 12.36 | 28 2 24.9 | −0 1 37.0 | 8.24392 | 115 | 16 25.7 |
| 10.0 | 6 41 19.46 | 32 48.70 | 28 0 47.9 | 0 31 6.1 | 8.24277 | 146 | 16 23.1 |
| 10.5 | 7 14 8.16 | | 27 29 41.8 | | 8.24131 | | 16 19.8 |
| | | 32 6.35 | | −0 59 0.0 | | −171 | |
| 11.0 | 7 46 14.51 | 31 9.69 | +26 30 41.8 | 1 24 31.3 | 8.23960 | 193 | 16 15.9 |
| 11.5 | 8 17 24.20 | 30 3.81 | 25 6 10.5 | 1 47 9.4 | 8.23767 | 209 | 16 11.6 |
| 12.0 | 8 47 28.01 | 28 54.00 | 23 19 1.1 | 2 6 38.1 | 8.23558 | 220 | 16 7.0 |
| 12.5 | 9 16 22.01 | 27 44.59 | 21 12 23.0 | 2 22 55.9 | 8.23338 | 226 | 16 2.1 |
| 13.0 | 9 44 6.60 | 26 39.22 | 18 49 27.1 | 2 36 8.8 | 8.23112 | 230 | 15 57.1 |
| 13.5 | 10 10 45.82 | 25 40.18 | 16 13 18.3 | 2 46 29.2 | 8.22882 | 230 | 15 52.0 |
| 14.0 | 10 36 26.00 | 24 49.02 | 13 26 49.1 | 2 54 11.9 | 8.22652 | 229 | 15 47.0 |
| 14.5 | 11 1 15.02 | 24 6.58 | 10 32 37.2 | 2 59 30.1 | 8.22423 | 224 | 15 42.0 |
| 15.0 | 11 25 21.60 | 23 33.19 | 7 33 7.1 | 3 2 38.1 | 8.22199 | 219 | 15 37.1 |
| 15.5 | 11 48 54.79 | | 4 30 29.0 | | 8.21980 | | 15 32.4 |
| | | 23 8.77 | | 3 3 45.9 | | 213 | |
| 16.0 | 12 12 3.56 | 22 53.08 | + 1 26 43.1 | 3 3 2.4 | 8.21767 | 206 | 15 27.9 |
| 16.5 | 12 34 56.64 | 22 45.78 | − 1 36 19.3 | 3 0 33.7 | 8.21561 | 199 | 15 23.5 |
| 17.0 | 12 57 42.42 | 22 46.29 | 4 36 53.0 | 2 56 24.1 | 8.21362 | 192 | 15 19.3 |
| 17.5 | 13 20 28.71 | 22 54.07 | 7 33 17.1 | 2 50 35.7 | 8.21170 | 185 | 15 15.2 |
| 18.0 | 13 43 22.78 | 23 8.35 | 10 23 52.8 | 2 43 10.7 | 8.20985 | 177 | 15 11.3 |
| 18.5 | 14 6 31.13 | 23 28.29 | 13 7 3.5 | 2 34 9.1 | 8.20808 | 169 | 15 7.6 |
| 19.0 | 14 29 59.42 | 23 52.81 | 15 41 12.6 | 2 23 32.1 | 8.20639 | 160 | 15 4.1 |
| 19.5 | 14 53 52.23 | 24 20.68 | 18 4 44.7 | 2 11 21.1 | 8.20479 | 152 | 15 0.8 |
| 20.0 | 15 18 12.91 | 24 50.40 | 20 16 5.8 | 1 57 38.7 | 8.20327 | 141 | 14 57.6 |
| 20.5 | 15 43 3.31 | | 22 13 44.5 | | 8.20186 | | 14 54.7 |

Nov. 6 4h 41.7m Vollmond. Nov. 12 20h 13.1m Letzt. Viert. Nov. 20 9h 43.0m Neumond.

## Im Meridian von Berlin.

| Datum und Kulmination | | Mittlere Zeit | AR. | Halbe Durchg.-D. Sternzeit | Bew. in 1h Länge | Dekl. | Bew. in 1h Länge | Vergl.-Sterne AR. | Vergl.-Sterne Dekl. | Vergl.-Sterne Gr. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | h m | h m s | s | s | ° ′ | ′ | h m | ° ′ | |
| Nov. 1 | O | 8 0.8 | 22 40 38 | —65.00 | 121.58 | —12 59.9 | +13.9 | 22 19.7 | —13 59 | 5.9 |
| | U | 20 23.0 | 23 4 52 | —64.79 | 120.94 | —10 7.9 | +14.8 | 22 25.3 | —13 22 | 6.2 |
| 2 | O | 8 45.2 | 23 29 3 | —64.76 | 120.95 | — 7 6.5 | +15.5 | 23 10.1 | —11 10 | 6.3 |
| | U | 21 7.4 | 23 53 18 | —64.93 | 121.68 | — 3 57.4 | +16.0 | 23 14.4 | —10 6 | 5.2 |
| 3 | O | 9 29.9 | 0 17 47 | —65.32 | 123.18 | — 0 42.3 | +16.4 | 23 48.4 | — 3 39 | 6.1 |
| | U | 21 52.7 | 0 42 38 | —65.93 | 125.49 | + 2 36.6 | +16.7 | 23 54.2 | — 4 3 | 5.0 |
| 4 | O | 10 16.1 | 1 8 3 | —66.76 | 128.64 | + 5 56.8 | +16.7 | 0 31.0 | — 1 0 | 5.4 |
| | U | 22 40.2 | 1 34 11 | —67.81 | 132.64 | + 9 15.7 | +16.4 | 0 46.8 | + 2 54 | 6.5 |
| 5 | O | 11 5.1 | 2 1 12 | —69.06 | 137.45 | +12 30.1 | +15.9 | 1 25.6 | + 5 41 | 5.0 |
| | U | 23 31.1 | 2 29 15 | —70.48 | 142.98 | +15 36.5 | +15.1 | 1 40.7 | + 8 43 | 4.5 |
| 6 | O | 11 58.3 | 2 58 28 | +72.02 | 149.30 | +18 31.1 | +13.9 | 2 28.1 | +14 38 | 6.1 |
| — | | — | — | — | — | — | — | 2 39.4 | +17 23 | 6.5 |
| 7 | U | 0 26.7 | 3 28 56 | +73.59 | 155.61 | +21 9.6 | +12.4 | 3 22.0 | +18 27 | 6.4 |
| | O | 12 56.4 | 4 0 38 | +75.10 | 161.71 | +23 27.8 | +10.6 | 3 33.9 | +20 38 | 6.5 |
| 8 | U | 1 27.2 | 4 33 30 | +76.43 | 167.10 | +25 21.7 | + 8.4 | 4 31.2 | +23 10 | 6.0 |
| | O | 13 59.0 | 5 7 21 | +77.45 | 171.24 | +26 47.5 | + 5.9 | 4 37.9 | +23 55 | 6.2 |
| 9 | U | 2 31.4 | 5 41 51 | +78.05 | 173.60 | +27 42.4 | + 3.2 | 5 45.4 | +27 57 | 5.6 |
| | O | 15 4.1 | 6 16 38 | +78.16 | 173.86 | +28 4.9 | + 0.5 | 5 51.0 | +28 56 | 6.4 |
| 10 | U | 3 36.7 | 6 51 15 | +77.77 | 171.98 | +27 54.5 | — 2.2 | 6 54.0 | +26 2 | 6.3 |
| | O | 16 8.7 | 7 25 19 | +76.91 | 168.18 | +27 12.4 | — 4.8 | 7 5.9 | +27 0 | 5.6 |
| 11 | U | 4 39.8 | 7 58 28 | +75.67 | 162.92 | +26 0.8 | — 7.1 | 7 56.4 | +25 20 | 6.2 |
| | O | 17 9.7 | 8 30 29 | +74.17 | 156.72 | +24 22.7 | — 9.2 | 8 5.1 | +25 47 | 5.9 |
| 12 | U | 5 38.4 | 9 1 12 | +72.55 | 150.15 | +22 21.7 | —10.9 | 9 2.4 | +23 20 | 6.3 |
| | O | 18 5.8 | 9 30 36 | +70.92 | 143.65 | +20 1.6 | —12.4 | 9 8.6 | +21 39 | 6.1 |
| 13 | U | 6 31.9 | 9 58 45 | +69.35 | 137.59 | +17 25.9 | —13.5 | 10 0.9 | +16 11 | 6.3 |
| | O | 18 56.8 | 10 25 44 | +67.91 | 132.18 | +14 38.0 | —14.4 | 10 11.5 | +18 11 | 6.5 |
| 14 | U | 7 20.8 | 10 51 43 | +66.65 | 127.55 | +11 40.9 | —15.1 | 10 44.6 | +11 1 | 5.3 |
| | O | 19 43.9 | 11 16 51 | +65.60 | 123.77 | + 8 37.4 | —15.5 | 10 59.9 | +13 9 | 6.7 |
| 15 | U | 8 6.3 | 11 41 19 | +64.76 | 120.86 | + 5 30.0 | —15.7 | 11 41.3 | + 7 2 | 4.2 |
| | O | 20 28.2 | 12 5 17 | +64.15 | 118.81 | + 2 20.8 | —15.8 | 11 55.4 | + 4 9 | 5.2 |
| 16 | U | 8 49.8 | 12 28 55 | +63.76 | 117.58 | — 0 48.2 | —15.7 | | | |
| | O | 21 11.3 | 12 52 23 | +63.59 | 117.11 | — 3 54.9 | —15.4 | | | |
| 17 | U | 9 32.7 | 13 15 49 | +63.63 | 117.37 | — 6 57.6 | —15.0 | | | |
| | O | 21 54.2 | 13 39 22 | +63.86 | 118.29 | — 9 54.6 | —14.5 | | | |
| 18 | U | 10 16.0 | 14 3 9 | +64.25 | 119.80 | —12 44.0 | —13.8 | | | |
| | O | 22 38.1 | 14 27 18 | +64.77 | 121.81 | —15 24.2 | —12.9 | | | |
| 19 | U | 11 0.6 | 14 51 53 | +65.41 | 124.21 | —17 53.4 | —11.9 | | | |
| | O | 23 23.7 | 15 16 59 | +66.12 | 126.88 | —20 9.8 | —10.8 | | | |
| 20 | U | 11 47.3 | 15 42 37 | —66.86 | 129.52 | —22 11.8 | — 9.5 | | | |
| — | | — | — | — | — | — | — | | | |

Nov. 8 $7^h$ Perigäum.

## Mittlerer Mittag und Mitternacht.

| Datum | Wahre AR. | Diff. | Wahre Dekl. | Diff. | Log. sin. A. H. Par. | Diff. | Halbm. |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ° ′ ″ | | | ′ ″ |
| Nov. 20.0 | 15 18 12.91 | | −20 16 5.8 | | 8.20327 | | 14 57.6 |
| | | 24 50.40 | | −1 57 38.7 | | −141 | |
| 20.5 | 15 43 3.31 | | 22 13 44.5 | | 8.20186 | | 14 54.7 |
| | | 25 20.26 | | 1 42 30.0 | | 130 | |
| 21.0 | 16 8 23.57 | | 23 56 14.5 | | 8.20056 | | 14 52.0 |
| | | 25 48.48 | | 1 26 2.2 | | 117 | |
| 21.5 | 16 34 12.05 | | 25 22 16.7 | | 8.19939 | | 14 49.6 |
| | | 26 13.07 | | 1 8 26.0 | | 103 | |
| 22.0 | 17 0 25.12 | | 26 30 42.7 | | 8.19836 | | 14 47.5 |
| | | 26 32.33 | | 0 49 55.0 | | 85 | |
| 22.5 | 17 26 57.45 | | 27 20 37.7 | | 8.19751 | | 14 45.8 |
| | | 26 44.78 | | 0 30 45.0 | | 67 | |
| 23.0 | 17 53 42.23 | | 27 51 22.7 | | 8.19684 | | 14 44.4 |
| | | 26 49.42 | | −0 11 14.3 | | 46 | |
| 23.5 | 18 20 31.65 | | 28 2 37.0 | | 8.19638 | | 14 43.5 |
| | | 26 45.87 | | +0 8 18.0 | | −24 | |
| 24.0 | 18 47 17.52 | | 27 54 19.0 | | 8.19614 | | 14 43.0 |
| | | 26 34.46 | | 0 27 33.6 | | +2 | |
| 24.5 | 19 13 51.98 | | 27 26 45.4 | | 8.19616 | | 14 43.0 |
| | | 26 16.11 | | +0 46 15.8 | | +28 | |
| 25.0 | 19 40 8.09 | | −26 40 29.6 | | 8.19644 | | 14 43.6 |
| | | 25 52.27 | | 1 4 10.7 | | 57 | |
| 25.5 | 20 6 0.36 | | 25 36 18.9 | | 8.19701 | | 14 44.8 |
| | | 25 24.64 | | 1 21 8.3 | | 87 | |
| 26.0 | 20 31 25.00 | | 24 15 10.6 | | 8.19788 | | 14 46.6 |
| | | 24 55.15 | | 1 37 0.8 | | 118 | |
| 26.5 | 20 56 20.15 | | 22 38 9.8 | | 8.19906 | | 14 49.0 |
| | | 24 25.70 | | 1 51 44.4 | | 151 | |
| 27.0 | 21 20 45.85 | | 20 46 25.4 | | 8.20057 | | 14 52.1 |
| | | 23 57.98 | | 2 5 17.3 | | 183 | |
| 27.5 | 21 44 43.83 | | 18 41 8.1 | | 8.20240 | | 14 55.8 |
| | | 23 33.55 | | 2 17 38.5 | | 214 | |
| 28.0 | 22 8 17.38 | | 16 23 29.6 | | 8.20454 | | 15 0.2 |
| | | 23 13.70 | | 2 28 48.8 | | 245 | |
| 28.5 | 22 31 31.08 | | 13 54 40.8 | | 8.20699 | | 15 5.3 |
| | | 22 59.57 | | 2 38 48.0 | | 274 | |
| 29.0 | 22 54 30.65 | | 11 15 52.8 | | 8.20973 | | 15 11.1 |
| | | 22 52.06 | | 2 47 33.8 | | 301 | |
| 29.5 | 23 17 22.71 | | 8 28 19.0 | | 8.21274 | | 15 17.4 |
| | | 22 52.00 | | +2 55 3.8 | | +323 | |
| 30.0 | 23 40 14.71 | | − 5 33 15.2 | | 8.21597 | | 15 24.3 |
| | | 23 0.09 | | 3 1 11.2 | | 343 | |
| 30.5 | 0 3 14.80 | | − 2 32 4.0 | | 8.21940 | | 15 31.6 |
| | | 23 16.94 | | 3 5 47.4 | | 356 | |
| Dez. 1.0 | 0 26 31.74 | | + 0 33 43.4 | | 8.22296 | | 15 39.2 |
| | | 23 43.08 | | 3 8 40.0 | | 363 | |
| 1.5 | 0 50 14.82 | | 3 42 23.4 | | 8.22659 | | 15 47.1 |
| | | 24 18.93 | | 3 9 32.5 | | 364 | |
| 2.0 | 1 14 33.75 | | 6 51 55.9 | | 8.23023 | | 15 55.1 |
| | | 25 4.64 | | 3 8 5.2 | | 357 | |
| 2.5 | 1 39 38.39 | | 10 0 1.1 | | 8.23380 | | 16 3.0 |
| | | 26 0.10 | | 3 3 55.6 | | 342 | |
| 3.0 | 2 5 38.49 | | 13 3 56.7 | | 8.23722 | | 16 10.6 |
| | | 27 4.59 | | 2 56 38.8 | | 319 | |
| 3.5 | 2 32 43.08 | | 16 0 35.5 | | 8.24041 | | 16 17.7 |
| | | 28 16.58 | | 2 45 50.8 | | 286 | |
| 4.0 | 3 0 59.66 | | 18 46 26.3 | | 8.24327 | | 16 24.2 |
| | | 29 33.51 | | 2 31 11.7 | | 248 | |
| 4.5 | 3 30 33.17 | | 21 17 38.0 | | 8.24575 | | 16 29.9 |
| | | 30 51.42 | | +2 12 29.4 | | +202 | |
| 5.0 | 4 1 24.59 | | +23 30 7.4 | | 8.24777 | | 16 34.5 |
| | | 32 5.08 | | 1 49 45.6 | | 151 | |
| 5.5 | 4 33 29.67 | | 25 19 53.0 | | 8.24928 | | 16 37.9 |
| | | 33 8.24 | | 1 23 20.9 | | 95 | |
| 6.0 | 5 6 37.91 | | 26 43 13.9 | | 8.25023 | | 16 40.1 |
| | | 33 54.44 | | 0 53 57.4 | | + 38 | |
| 6.5 | 5 40 32.35 | | 27 37 11.3 | | 8.25061 | | 16 41.0 |
| | | 34 18.36 | | +0 22 37.1 | | − 20 | |
| 7.0 | 6 14 50.71 | | 27 59 48.4 | | 8.25041 | | 16 40.5 |
| | | 34 16.89 | | −0 9 22.0 | | 75 | |
| 7.5 | 6 49 7.60 | | 27 50 26.4 | | 8.24966 | | 16 38.8 |
| | | 33 50.22 | | 0 40 38.7 | | 128 | |
| 8.0 | 7 22 57.82 | | 27 9 47.7 | | 8.24838 | | 16 35.9 |
| | | 33 1.53 | | 1 9 58.9 | | 175 | |
| 8.5 | 7 55 59.35 | | 25 59 48.8 | | 8.24663 | | 16 31.9 |
| | | 31 56.32 | | 1 36 24.4 | | 216 | |
| 9.0 | 8 27 55.67 | | 24 23 24.4 | | 8.24447 | | 16 27.0 |
| | | 30 41.05 | | 1 59 18.6 | | 250 | |
| 9.5 | 8 58 36.72 | | 22 24 5.8 | | 8.24197 | | 16 21.3 |

Nov. 20 9h 43.0m Neumond. Nov. 28 14h 35.5m Erst. Viert. Dez. 5 15h 45.5m Vollmond.

## Im Meridian von Berlin.

| Datum und Kulmination | Mittlere Zeit | AR. | Halbe Durchg.-D. Sternzeit | Bew. in $1^h$ Länge | Dekl. | Bew. in $1^h$ Länge | Vergl.-Sterne AR. | Vergl.-Sterne Dekl. | Vergl.-Sterne Gr. |
|---|---|---|---|---|---|---|---|---|---|
| | h m | h m s | s | s | ° ′ | ′ | h m | ° ′ | |
| Nov. 20 *U* | 11 47.3 | 15 42 37 | −66.86 | 129.52 | −22 11.8 | − 9.5 | | | |
| — | — | — | — | — | — | — | | | |
| 21 *O* | 0 11.4 | 16 8 48 | −67.58 | 132.23 | −23 57.7 | − 8.1 | | | |
| *U* | 12 36.1 | 16 35 30 | −68.24 | 134.69 | −25 26.1 | − 6.6 | | | |
| 22 *O* | 1 1.2 | 17 2 40 | −68.79 | 136.73 | −26 35.7 | − 5.0 | | | |
| *U* | 13 26.7 | 17 30 10 | −69.18 | 138.16 | −27 25.4 | − 3.3 | | | |
| 23 *O* | 1 52.4 | 17 57 53 | −69.39 | 138.87 | −27 54.4 | − 1.6 | | | |
| *U* | 14 18.1 | 18 25 40 | −69.41 | 138.81 | −28 2.5 | + 0.2 | | | |
| 24 *O* | 2 43.7 | 18 53 21 | −69.23 | 137.97 | −27 49.7 | + 1.9 | | | |
| *U* | 15 9.1 | 19 20 48 | −68.86 | 136.43 | −27 16.4 | + 3.6 | | | |
| 25 *O* | 3 34.2 | 19 47 53 | −68.34 | 134.32 | −26 23.2 | + 5.2 | | | |
| *U* | 15 58.8 | 20 14 29 | −67.71 | 131.82 | −25 11.2 | + 6.7 | | | |
| 26 *O* | 4 22.8 | 20 40 34 | −67.02 | 129.11 | −23 41.5 | + 8.2 | 20 27.6 | −25 15 | 6.2 |
| *U* | 16 46.3 | 21 6 6 | −66.32 | 126.38 | −21 55.4 | + 9.5 | 20 32.6 | −25 25 | 6.3 |
| 27 *O* | 5 9.3 | 21 31 7 | −65.64 | 123.81 | −19 54.2 | +10.7 | 21 4.5 | −20 55 | 6.1 |
| *U* | 17 31.8 | 21 55 38 | −65.03 | 121.54 | −17 39.2 | +11.8 | 21 10.6 | −21 1 | 5.3 |
| 28 *O* | 5 53.8 | 22 19 44 | −64.54 | 119.70 | −15 11.7 | +12.8 | 21 46.8 | −19 2 | 6.1 |
| *U* | 18 15.6 | 22 43 32 | −64.18 | 118.40 | −12 33.0 | +13.7 | 21 57.3 | −18 20 | 6.4 |
| 29 *O* | 6 37.2 | 23 7 8 | −63.99 | 117.72 | − 9 44.4 | +14.4 | 22 43.9 | −11 2 | 6.1 |
| *U* | 18 58.7 | 23 30 40 | −63.99 | 117.74 | − 6 47.3 | +15.1 | 22 48.8 | −12 5 | 5.8 |
| 30 *O* | 7 20.3 | 23 54 17 | −64.20 | 118.54 | − 3 43.1 | +15.6 | 23 31.0 | − 7 57 | 6.5 |
| *U* | 19 42.1 | 0 18 9 | −64.63 | 120.17 | − 0 33.3 | +16.0 | 23 44.0 | − 6 52 | 6.3 |
| Dez. 1 *O* | 8 4.3 | 0 42 26 | −65.30 | 122.67 | + 2 40.4 | +16.2 | 0 3.7 | − 2 57 | 6.3 |
| *U* | 20 27.2 | 1 7 18 | −66.21 | 126.11 | + 5 55.9 | +16.3 | 0 20.0 | − 2 43 | 6.3 |
| 2 *O* | 8 50.8 | 1 32 58 | −67.36 | 130.51 | + 9 10.9 | +16.1 | 1 3.8 | + 5 11 | 5.6 |
| *U* | 21 15.4 | 1 59 36 | −68.74 | 135.85 | +12 22.4 | +15.7 | 1 9.1 | + 7 6 | 5.4 |
| 3 *O* | 9 41.2 | 2 27 24 | −70.32 | 142.06 | +15 27.2 | +15.0 | 1 57.8 | +13 3 | 6.3 |
| *U* | 22 8.2 | 2 56 31 | −72.05 | 148.96 | +18 21.5 | +14.0 | 2 8.3 | +14 52 | 5.8 |
| 4 *O* | 10 36.7 | 3 27 4 | −73.85 | 156.28 | +21 1.0 | +12.5 | 2 51.5 | +17 40 | 5.6 |
| *U* | 23 6.7 | 3 59 5 | −75.61 | 163.57 | +23 21.1 | +10.7 | 3 2.5 | +17 32 | 6.0 |
| 5 *O* | 11 38.1 | 4 32 30 | −77.19 | 170.24 | +25 16.9 | + 8.5 | 4 0.1 | +21 46 | 6.1 |
| — | — | — | — | — | — | — | 4 7.6 | +22 11 | 6.1 |
| 6 *U* | 0 10.6 | 5 7 8 | +78.44 | 175.75 | +26 44.2 | + 6.0 | 5 4.2 | +27 55 | 6.0 |
| *O* | 12 44.1 | 5 42 38 | +79.22 | 179.05 | +27 39.5 | + 3.2 | 5 15.5 | +27 52 | 6.4 |
| 7 *U* | 1 18.0 | 6 18 34 | +79.45 | 179.89 | +28 0.3 | + 0.3 | 6 9.8 | +29 32 | 4.4 |
| *O* | 13 51.7 | 6 54 25 | +79.08 | 178.13 | +27 46.1 | − 2.6 | 6 29.7 | +28 6 | 5.1 |
| 8 *U* | 2 24.9 | 7 29 41 | +78.16 | 174.04 | +26 58.0 | − 5.4 | 7 30.5 | +27 6 | 4.3 |
| *O* | 14 57.1 | 8 3 57 | +76.81 | 168.14 | +25 38.4 | − 7.9 | 7 38.8 | +26 0 | 5.5 |
| 9 *U* | 3 28.0 | 8 36 56 | +75.17 | 161.13 | +23 51.1 | −10.0 | 8 27.8 | +24 23 | 6.4 |
| *O* | 15 57.5 | 9 8 27 | +73.38 | 153.68 | +21 40.4 | −11.8 | 9 2.4 | +23 20 | 6.3 |



Nov. 24 $6^h$ Apogäum. Dez. 6 $14^h$ Perigäum.

## Mittlerer Mittag und Mitternacht.

| Datum | Wahre AR. | Diff. | Wahre Dekl. | Diff. | Log. sin. A. H. Par. | Diff. | Halbm. |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ° ′ ″ | | | ′ ″ |
| Dez. 9.0 | 8 27 55.67 | 30 41.05 | +24 23 24.4 | −1 59 18.6 | 8.24447 | −250 | 16 27.0 |
| 9.5 | 8 58 36.72 | 29 21.99 | 22 24 5.8 | 2 18 26.9 | 8.24197 | 277 | 16 21.3 |
| 10.0 | 9 27 58.71 | 28 4.30 | 20 5 38.9 | 2 33 50.3 | 8.23920 | 296 | 16 15.1 |
| 10.5 | 9 56 3.01 | 26 51.85 | 17 31 48.6 | 2 45 42.2 | 8.23624 | 308 | 16 8.5 |
| 11.0 | 10 22 54.86 | 25 47.20 | 14 46 6.4 | 2 54 22.0 | 8.23316 | 314 | 16 1.6 |
| 11.5 | 10 48 42.06 | 24 51.79 | 11 51 44.4 | 3 0 12.2 | 8.23002 | 314 | 15 54.7 |
| 12.0 | 11 13 33.85 | 24 6.26 | 8 51 32.2 | 3 3 33.0 | 8.22688 | 308 | 15 47.8 |
| 12.5 | 11 37 40.11 | 23 30.81 | 5 47 59.2 | 3 4 42.8 | 8.22380 | 300 | 15 41.1 |
| 13.0 | 12 1 10.92 | 23 5.18 | +2 43 16.4 | 3 3 57.8 | 8.22080 | 287 | 15 34.6 |
| 13.5 | 12 24 16.10 | 22 49.01 | −0 20 41.4 | −3 1 29.3 | 8.21793 | −272 | 15 28.4 |
| 14.0 | 12 47 5.11 | 22 41.74 | −3 22 10.7 | 2 57 26.2 | 8.21521 | 255 | 15 22.6 |
| 14.5 | 13 9 46.85 | 22 42.75 | 6 19 36.9 | 2 51 53.0 | 8.21266 | 238 | 15 17.2 |
| 15.0 | 13 32 29.60 | 22 51.38 | 9 11 29.9 | 2 44 54.0 | 8.21028 | 219 | 15 12.2 |
| 15.5 | 13 55 20.98 | 23 6.76 | 11 56 23.9 | 2 36 29.5 | 8.20809 | 200 | 15 7.6 |
| 16.0 | 14 18 27.74 | 23 27.96 | 14 32 53.4 | 2 26 39.8 | 8.20609 | 182 | 15 3.5 |
| 16.5 | 14 41 55.70 | 23 53.82 | 16 59 33.2 | 2 15 24.1 | 8.20427 | 164 | 14 59.7 |
| 17.0 | 15 5 49.52 | 24 22.95 | 19 14 57.3 | 2 2 42.4 | 8.20263 | 146 | 14 56.3 |
| 17.5 | 15 30 12.47 | 24 53.74 | 21 17 39.7 | 1 48 35.7 | 8.20117 | 129 | 14 53.3 |
| 18.0 | 15 55 6.21 | 25 24.36 | 23 6 15.4 | 1 33 7.7 | 8.19988 | 113 | 14 50.6 |
| 18.5 | 16 20 30.57 | 25 52.83 | 24 39 23.1 | −1 16 24.4 | 8.19875 | −95 | 14 48.3 |
| 19.0 | 16 46 23.40 | 26 17.09 | −25 55 47.5 | 0 58 36.0 | 8.19780 | 80 | 14 46.4 |
| 19.5 | 17 12 40.49 | 26 35.34 | 26 54 23.5 | 0 39 55.6 | 8.19700 | 64 | 14 44.8 |
| 20.0 | 17 39 15.83 | 26 46.07 | 27 34 19.1 | 0 20 40.4 | 8.19636 | 47 | 14 43.5 |
| 20.5 | 18 6 1.90 | 26 48.33 | 27 54 59.5 | −0 1 9.3 | 8.19589 | 31 | 14 42.5 |
| 21.0 | 18 32 50.23 | 26 41.91 | 27 56 8.8 | +0 18 17.1 | 8.19558 | −13 | 14 41.9 |
| 21.5 | 18 59 32.14 | 26 27.25 | 27 37 51.7 | 0 37 19.4 | 8.19545 | +5 | 14 41.6 |
| 22.0 | 19 25 59.39 | 26 5.46 | 27 0 32.3 | 0 55 39.7 | 8.19550 | 24 | 14 41.7 |
| 22.5 | 19 52 4.85 | 25 38.16 | 26 4 52.6 | 1 13 3.1 | 8.19574 | 45 | 14 42.2 |
| 23.0 | 20 17 43.01 | 25 7.24 | 24 51 49.5 | 1 29 18.9 | 8.19619 | 67 | 14 43.1 |
| 23.5 | 20 42 50.25 | 24 34.76 | 23 22 30.6 | +1 44 19.5 | 8.19686 | +90 | 14 44.5 |
| 24.0 | 21 7 25.01 | 24 2.58 | −21 38 11.1 | 1 58 1.3 | 8.19776 | 115 | 14 46.3 |
| 24.5 | 21 31 27.59 | 23 32.49 | 19 40 9.8 | 2 10 23.3 | 8.19891 | 140 | 14 48.7 |
| 25.0 | 21 55 0.08 | 23 5.98 | 17 29 46.5 | 2 21 26.3 | 8.20031 | 166 | 14 51.5 |
| 25.5 | 22 18 6.06 | 22 44.33 | 15 8 20.2 | 2 31 11.6 | 8.20197 | 194 | 14 54.9 |
| 26.0 | 22 40 50.39 | 22 28.64 | 12 37 8.6 | 2 39 41.7 | 8.20391 | 221 | 14 58.9 |
| 26.5 | 23 3 19.03 | 22 19.76 | 9 57 26.9 | 2 46 56.6 | 8.20612 | 247 | 15 3.5 |
| 27.0 | 23 25 38.79 | 22 18.43 | 7 10 30.3 | 2 52 56.3 | 8.20859 | 274 | 15 8.7 |
| 27.5 | 23 47 57.22 | 22 25.37 | 4 17 34.0 | 2 57 37.5 | 8.21133 | 297 | 15 14.4 |
| 28.0 | 0 10 22.59 | 22 41.16 | −1 19 56.5 | 3 0 55.1 | 8.21430 | 319 | 15 20.7 |
| 28.5 | 0 33 3.75 | | +1 40 58.6 | | 8.21749 | | 15 27.5 |

Dez. 12 6h 39m.2 Letzt. Viert. Dez. 20 4h 33m.9 Neumond. Dez. 28 7h 41m.1 Erst. Viert.

Im Meridian von Berlin.

| Datum und Kulmination | | Mittlere Zeit | AR. | Halbe Durchg.-D. Sternzeit | Bew. in 1h Länge | Dekl. | Bew. in 1h Länge | Vergl.-Sterne AR. | Vergl.-Sterne Dekl. | Vergl.-Sterne Gr. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | h m | h m s | s | s | ° ′ | ′ | h m | ° ′ | |
| Dez. 9 | U | 3 28.0 | 8 36 56 | +75.17 | 161.13 | +23 51.1 | −10.0 | 8 27.8 | +24 23 | 6.4 |
| | O | 15 57.5 | 9 8 27 | +73.38 | 153.68 | +21 40.4 | −11.8 | 9 2.4 | +23 20 | 6.3 |
| 10 | U | 4 25.5 | 9 38 29 | +71.57 | 146.35 | +19 10.5 | −13.2 | 9 34.0 | +20 42 | 6.7 |
| | O | 16 52.1 | 10 7 5 | +69.84 | 139.54 | +16 25.8 | −14.2 | 9 39.6 | +19 16 | 6.5 |
| 11 | U | 5 17.4 | 10 34 24 | +68.27 | 133.49 | +13 30.1 | −15.0 | 10 27.5 | +14 36 | 5.8 |
| | O | 17 41.5 | 11 0 36 | +66.91 | 128.36 | +10 26.8 | −15.5 | 10 41.8 | +14 40 | 5.5 |
| 12 | U | 6 4.7 | 11 25 52 | +65.77 | 124.19 | + 7 18.8 | −15.8 | 11 19.3 | +11 1 | 4.1 |
| | O | 18 27.2 | 11 50 23 | +64.87 | 120.98 | + 4 8.7 | −15.9 | 11 33.9 | + 8 38 | 5.4 |
| 13 | U | 6 49.2 | 12 14 21 | +64.23 | 118.71 | + 0 58.5 | −15.8 | 12 5.2 | + 2 24 | 6.2 |
| | O | 19 10.8 | 12 37 57 | +63.82 | 117.33 | − 2 9.7 | −15.6 | 12 15.4 | − 0 10 | 4.0 |
| 14 | U | 7 32.1 | 13 1 20 | +63.63 | 116.78 | − 5 14.2 | −15.2 | 12 59.4 | − 3 11 | 6.5 |
| | O | 19 53.4 | 13 24 42 | +63.66 | 117.00 | − 8 13.4 | −14.7 | 13 5.4 | − 5 4 | 4.4 |
| 15 | U | 8 14.9 | 13 48 11 | +63.89 | 117.91 | −11 5.7 | −14.0 | 13 42.5 | − 9 16 | 6.2 |
| | O | 20 36.6 | 14 11 54 | +64.28 | 119.45 | −13 49.6 | −13.3 | 14 4.3 | − 9 55 | 6.5 |
| 16 | U | 8 58.6 | 14 35 59 | +64.81 | 121.51 | −16 23.6 | −12.4 | | | |
| | O | 21 21.1 | 15 0 31 | +65.44 | 123.99 | −18 46.1 | −11.4 | | | |
| 17 | U | 9 44.1 | 15 25 34 | +66.15 | 126.74 | −20 55.5 | −10.2 | | | |
| | O | 22 7.7 | 15 51 11 | +66.89 | 129.60 | −22 50.3 | − 8.9 | | | |
| 18 | U | 10 31.9 | 16 17 22 | +67.60 | 132.37 | −24 28.9 | − 7.5 | | | |
| | O | 22 56.6 | 16 44 5 | +68.24 | 134.87 | −25 49.8 | − 6.0 | | | |
| 19 | U | 11 21.7 | 17 11 16 | +68.75 | 136.89 | −26 51.7 | − 4.3 | | | |
| | O | 23 47.2 | 17 38 47 | +69.10 | 138.26 | −27 33.8 | − 2.6 | | | |
| 20 | U | 12 12.8 | 18 6 31 | −69.26 | 138.84 | −27 55.2 | − 0.9 | | | |
| — | | — | — | — | — | — | — | | | |
| 21 | O | 0 38.5 | 18 34 16 | −69.21 | 138.64 | −27 55.7 | + 0.8 | | | |
| | U | 13 4.1 | 19 1 54 | −68.96 | 137.60 | −27 35.3 | + 2.5 | | | |
| 22 | O | 1 29.5 | 19 29 15 | −68.52 | 135.83 | −26 54.6 | + 4.2 | | | |
| | U | 13 54.4 | 19 56 11 | −67.93 | 133.48 | −25 54.4 | + 5.8 | | | |
| 23 | O | 2 18.7 | 20 22 36 | −67.22 | 130.71 | −24 35.8 | + 7.3 | | | |
| | U | 14 42.5 | 20 48 26 | −66.46 | 127.73 | −23 0.2 | + 8.6 | | | |
| 24 | O | 3 5.7 | 21 13 40 | −65.69 | 124.74 | −21 9.0 | + 9.9 | | | |
| | U | 15 28.3 | 21 38 19 | −64.96 | 121.92 | −19 3.6 | +11.0 | | | |
| 25 | O | 3 50.4 | 22 2 26 | −64.31 | 119.41 | −16 45.6 | +12.0 | 21 38.3 | −20 2 | 6.1 |
| | U | 16 12.0 | 22 26 6 | −63.76 | 117.34 | −14 16.4 | +12.9 | 21 45.4 | −17 16 | 6.5 |
| 26 | O | 4 33.3 | 22 49 24 | −63.37 | 115.81 | −11 37.4 | +13.6 | 22 19.7 | −13 59 | 5.9 |
| | U | 16 54.3 | 23 12 27 | −63.15 | 114.92 | − 8 50.0 | +14.3 | 22 25.3 | −13 22 | 6.2 |
| 27 | O | 5 15.2 | 23 35 24 | −63.11 | 114.73 | − 5 55.4 | +14.8 | 23 10.1 | −11 10 | 6.3 |
| | U | 17 36.2 | 23 58 24 | −63.29 | 115.30 | − 2 55.1 | +15.2 | 23 14.4 | −10 6 | 5.2 |
| 28 | O | 5 57.4 | 0 21 36 | −63.70 | 116.70 | + 0 9.6 | +15.5 | 23 57.3 | − 3 31 | 5.1 |
| | U | 18 18.9 | 0 45 10 | −64.35 | 118.99 | + 3 17.0 | +15.7 | 0 3.2 | − 3 3 | 6.3 |

Dez. 21 15h Apogäum.

## Mittlerer Mittag und Mitternacht.

| Datum | Wahre AR. | Diff. | Wahre Dekl. | Diff. | Log. sin. A. H. Par. | Diff. | Halbm. |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ' " | ° ' " | | | ' " |
| Dez. 28.0 | 0 10 22.59 | 22 41.16 | − 1 19 56.5 | +3 0 55.1 | 8.21430 | +319 | 15 20.7 |
| 28.5 | 0 33 3.75 | 23 6.37 | + 1 40 58.6 | 3 2 39.9 | 8.21749 | 337 | 15 27.5 |
| 29.0 | 0 56 10.12 | 23 41.46 | 4 43 38.5 | 3 2 39.4 | 8.22086 | 352 | 15 34.7 |
| 29.5 | 1 19 51.58 | 24 26.70 | 7 46 17.9 | 3 0 37.6 | 8.22438 | 360 | 15 42.3 |
| 30.0 | 1 44 18.28 | 25 22.18 | 10 46 55.5 | 2 56 13.5 | 8.22798 | 362 | 15 50.2 |
| 30.5 | 2 9 40.46 | 26 27.44 | 13 43 9.0 | 2 49 4.7 | 8.23160 | 359 | 15 58.2 |
| 31.0 | 2 36 7.90 | 27 41.27 | 16 32 13.7 | 2 38 45.9 | 8.23519 | 347 | 16 6.1 |
| 31.5 | 3 3 49.17 | 29 1.48 | 19 10 59.6 | 2 24 53.3 | 8.23866 | 326 | 16 13.8 |
| 32.0 | 3 32 50.65 | | 21 35 52.9 | | 8.24192 | | 16 21.2 |

Dez. 28 7^h 41.1^m Erstes Viertel.

## Phasen des Mondes.

| | | h m | |
|---|---|---|---|
| Jan. | 7 | 19 14.0 | Erstes Viertel |
| | 14 | 11 19.6 | Vollmond |
| | 21 | 19 14.4 | Letztes Viertel |
| | 29 | 22 38.3 | Neumond |
| Febr. | 6 | 4 21.2 | Erstes Viertel |
| | 12 | 23 31.1 | Vollmond |
| | 20 | 16 37.8 | Letztes Viertel |
| | 28 | 13 24.7 | Neumond |
| März | 7 | 11 55.1 | Erstes Viertel |
| | 14 | 12 52.1 | Vollmond |
| | 22 | 13 20.0 | Letztes Viertel |
| | 30 | 1 31.4 | Neumond |
| April | 5 | 18 48.5 | Erstes Viertel |
| | 13 | 3 30.2 | Vollmond |
| | 21 | 7 29.3 | Letztes Viertel |
| | 28 | 11 18.6 | Neumond |
| Mai | 5 | 2 7.3 | Erstes Viertel |
| | 12 | 19 3.3 | Vollmond |
| | 20 | 22 16.5 | Letztes Viertel |
| | 27 | 19 18.0 | Neumond |
| Juni | 3 | 10 57.8 | Erstes Viertel |
| | 11 | 10 44.3 | Vollmond |
| | 19 | 9 44.4 | Letztes Viertel |
| | 26 | 2 13.3 | Neumond |
| Juli | 2 | 22 14.0 | Erstes Viertel |
| | 11 | 1 47.0 | Vollmond |
| | 18 | 18 24.4 | Letztes Viertel |
| | 25 | 9 5.6 | Neumond |
| Aug. | 1 | 12 23.0 | Erstes Viertel |
| | 9 | 15 48.3 | Vollmond |
| | 17 | 1 4.3 | Letztes Viertel |
| | 23 | 17 7.9 | Neumond |
| | 31 | 5 14.3 | Erstes Viertel |
| Sept. | 8 | 4 50.3 | Vollmond |
| | 15 | 6 44.4 | Letztes Viertel |
| | 22 | 3 31.0 | Neumond |
| | 30 | 0 1.6 | Erstes Viertel |
| Okt. | 7 | 17 4.7 | Vollmond |
| | 14 | 12 39.6 | Letztes Viertel |
| | 21 | 17 2.9 | Neumond |
| | 29 | 19 35.1 | Erstes Viertel |
| Nov. | 6 | 4 41.7 | Vollmond |
| | 12 | 20 13.1 | Letztes Viertel |
| | 20 | 9 43.0 | Neumond |
| | 28 | 14 35.5 | Erstes Viertel |
| Dez. | 5 | 15 45.5 | Vollmond |
| | 12 | 6 39.2 | Letztes Viertel |
| | 20 | 4 33.9 | Neumond |
| | 28 | 7 41.1 | Erstes Viertel |

Im Meridian von Berlin.

| Datum und Kulmination | | Mittlere Zeit | AR. | Halbe Durchg.-D. Sternzeit | Bew. in 1ʰ Länge | Dekl. | Bew. in 1ʰ Länge | Vergl.-Sterne AR. | Dekl. | Gr. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | h m | h m s | s | s | ° ′ | ′ | h m | ° ′ | |
| Dez. 28 | O | 5 57.4 | 0 21 36 | −63.70 | 116.70 | + 0 9.6 | +15.5 | 23 57.3 | − 3 31 | 5.1 |
| | U | 18 18.9 | 0 45 10 | −64.35 | 118.99 | + 3 17.0 | +15.7 | 0 3.2 | − 3 3 | 6.3 |
| 29 | O | 6 41.0 | 1 9 17 | −65.24 | 122.23 | + 6 25.5 | +15.7 | 0 31.0 | − 1 0 | 5.4 |
| | U | 19 3.9 | 1 34 9 | −66.38 | 126.44 | + 9 33.0 | +15.5 | 0 46.8 | + 2 54 | 6.5 |
| 30 | O | 7 27.7 | 1 59 58 | −67.75 | 131.63 | +12 37.2 | +15.1 | 1 25.6 | + 5 41 | 5.0 |
| | U | 19 52.6 | 2 26 55 | −69.35 | 137.77 | +15 35.1 | +14.5 | 1 40.7 | + 8 43 | 4.5 |
| 31 | O | 8 18.8 | 2 55 10 | −71.13 | 144.77 | +18 23.5 | +13.5 | 2 28.1 | +14 38 | 6.1 |
| | U | 20 46.5 | 3 24 54 | −73.00 | 152.39 | +20 58.5 | +12.2 | 2 39.4 | +17 23 | 6.5 |

| Mond im Perigäum | | h | Mond im Apogäum | | h |
|---|---|---|---|---|---|
| Jan. | 12 | 13 | Jan. | 24 | 9 |
| Febr. | 9 | 6 | Febr. | 21 | 5 |
| März | 6 | 5 | März | 21 | 2 |
| April | 1 | 21 | April | 17 | 20 |
| | 29 | 22 | Mai | 15 | 8 |
| Mai | 28 | 6 | Juni | 11 | 12 |
| Juni | 25 | 16 | Juli | 8 | 16 |
| Juli | 23 | 23 | Aug. | 5 | 3 |
| Aug. | 20 | 23 | Sept. | 1 | 20 |
| Sept. | 16 | 19 | | 29 | 15 |
| Okt. | 11 | 19 | Okt. | 27 | 11 |
| Nov. | 8 | 7 | Nov. | 24 | 6 |
| Dez. | 6 | 14 | Dez. | 21 | 15 |

Mittlere Mitternacht Berlin.

| Datum | | $\alpha_☾ - \alpha_k$ | | | $\delta_☾ - \delta_k$ | | | log sin $p_k$ | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Jan. | 7 | — 2.44 | +0.08 | | +110.2 | −23.7 | | 8.23147 | +478 | |
| | 8 | — 2.36 | −0.23 | −0.31 | + 86.5 | −27.7 | — 4.0 | 8.23625 | +445 | — 33 |
| | 9 | — 2.59 | −0.74 | −0.51 | + 58.8 | −29.3 | — 1.6 | 8.24070 | +371 | — 74 |
| | 10 | — 3.33 | −1.42 | −0.68 | + 29.5 | −26.7 | + 2.6 | 8.24441 | +251 | −120 |
| | 11 | — 4.75 | −2.08 | −0.66 | + 2.8 | −19.1 | + 7.6 | 8.24692 | + 97 | −154 |
| | 12 | — 6.83 | −2.41 | −0.33 | — 16.3 | − 7.7 | +11.4 | 8.24789 | − 86 | −183 |
| | 13 | — 9.24 | −2.17 | +0.24 | — 24.0 | + 4.3 | +12.0 | 8.24703 | −274 | −188 |
| | 14 | —11.41 | −1.48 | +0.69 | — 19.7 | +13.0 | + 8.7 | 8.24429 | −443 | −169 |
| | 15 | —12.89 | −0.65 | +0.83 | — 6.7 | +16.8 | + 3.8 | 8.23986 | −572 | −129 |
| | 16 | —13.54 | +0.07 | +0.72 | + 10.1 | +16.6 | — 0.2 | 8.23414 | −649 | — 77 |
| | 17 | —13.47 | +0.60 | +0.53 | + 26.7 | +14.1 | — 2.5 | 8.22765 | −668 | — 19 |
| | 18 | —12.87 | +0.95 | +0.35 | + 40.8 | +11.2 | — 2.9 | 8.22097 | −634 | + 34 |
| | 19 | —11.92 | +1.17 | +0.22 | + 52.0 | + 8.9 | — 2.3 | 8.21463 | −558 | + 76 |
| | 20 | —10.75 | +1.32 | +0.15 | + 60.9 | + 7.6 | — 1.3 | 8.20905 | −448 | +110 |
| | 21 | — 9.43 | +1.39 | +0.07 | + 68.5 | + 7.4 | — 0.2 | 8.20457 | −319 | +129 |
| | 22 | — 8.04 | +1.38 | −0.01 | + 75.9 | + 8.3 | + 0.9 | 8.20138 | −181 | +138 |
| | 23 | — 6.66 | | | + 84.2 | | | 8.19957 | | |
| Febr. | 5 | — 3.52 | −0.29 | | + 55.0 | −26.0 | | 8.23553 | +235 | |
| | 6 | — 3.81 | −0.77 | −0.48 | + 29.0 | −24.4 | + 1.6 | 8.23788 | +185 | — 50 |
| | 7 | — 4.58 | −1.31 | −0.54 | + 4.6 | −19.3 | + 5.1 | 8.23973 | +115 | — 70 |
| | 8 | — 5.89 | −1.73 | −0.42 | — 14.7 | −11.0 | + 8.3 | 8.24088 | + 22 | — 93 |
| | 9 | — 7.62 | −1.82 | −0.09 | — 25.7 | − 0.8 | +10.2 | 8.24110 | − 89 | −111 |
| | 10 | — 9.44 | −1.48 | +0.34 | — 26.5 | + 8.3 | + 9.1 | 8.24021 | −214 | −125 |
| | 11 | —10.92 | −0.91 | +0.57 | — 18.2 | +14.5 | + 6.2 | 8.23807 | −335 | −121 |
| | 12 | —11.83 | −0.28 | +0.63 | — 3.7 | +17.0 | + 2.5 | 8.23472 | −441 | −106 |
| | 13 | —12.11 | +0.23 | +0.51 | + 13.3 | +16.6 | — 0.4 | 8.23031 | −517 | — 76 |
| | 14 | —11.88 | +0.61 | +0.38 | + 29.9 | +14.7 | — 1.9 | 8.22514 | −555 | — 38 |
| | 15 | —11.27 | +0.89 | +0.28 | + 44.6 | +12.4 | — 2.3 | 8.21959 | −548 | + 7 |
| | 16 | —10.38 | +1.08 | +0.19 | + 57.0 | +10.4 | — 2.0 | 8.21411 | −500 | + 48 |
| | 17 | — 9.30 | +1.21 | +0.13 | + 67.4 | + 9.2 | — 1.2 | 8.20911 | −415 | + 85 |
| | 18 | — 8.09 | +1.27 | +0.06 | + 76.6 | + 8.9 | — 0.3 | 8.20496 | −305 | +110 |
| | 19 | — 6.82 | +1.24 | −0.03 | + 85.5 | + 9.6 | + 0.7 | 8.20191 | −172 | +133 |
| | 20 | — 5.58 | +1.11 | −0.13 | + 95.1 | +10.6 | + 1.0 | 8.20019 | − 31 | +141 |
| | 21 | — 4.47 | | | +105.7 | | | 8.19988 | | |
| März | 7 | — 6.97 | −1.38 | | — 17.1 | −10.3 | | 8.23814 | −100 | |
| | 8 | — 8.35 | −1.39 | −0.01 | — 27.4 | − 1.6 | + 8.7 | 8.23714 | −153 | — 53 |
| | 9 | — 9.74 | −1.11 | +0.28 | — 29.0 | + 6.4 | + 8.0 | 8.23561 | −205 | — 52 |
| | 10 | —10.85 | −0.64 | +0.47 | — 22.6 | +12.2 | + 5.8 | 8.23356 | −260 | — 55 |
| | 11 | —11.49 | −0.16 | +0.48 | — 10.4 | +15.2 | + 3.0 | 8.23096 | −318 | — 58 |
| | 12 | —11.65 | +0.27 | +0.43 | + 4.8 | +16.0 | + 0.8 | 8.22778 | −371 | — 53 |
| | 13 | —11.38 | +0.57 | +0.30 | + 20.8 | +15.5 | — 0.5 | 8.22407 | −413 | — 42 |
| | 14 | —10.81 | +0.81 | +0.24 | + 36.3 | +14.0 | — 1.5 | 8.21994 | −434 | — 21 |
| | 15 | —10.00 | | +0.15 | + 50.3 | | — 1.5 | 8.21560 | | + 1 |

Mittlere Mitternacht Berlin.

| Datum | $\alpha_{☾} - \alpha_k$ | | | $\delta_{☾} - \delta_k$ | | | log sin $p_k$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | s | s | s | " | " | " | | | |
| März 15 | −10.00 | +0.96 | +0.15 | + 50.3 | +12.5 | −1.5 | 8.21560 | −433 | + 1 |
| 16 | − 9.04 | +1.09 | +0.13 | + 62.8 | +11.2 | −1.3 | 8.21127 | −403 | + 30 |
| 17 | − 7.95 | +1.15 | +0.06 | + 74.0 | +10.4 | −0.8 | 8.20724 | −339 | + 64 |
| 18 | − 6.80 | +1.17 | +0.02 | + 84.4 | +10.3 | −0.1 | 8.20385 | −252 | + 87 |
| 19 | − 5.63 | +1.11 | −0.06 | + 94.7 | +10.8 | +0.5 | 8.20133 | −138 | +114 |
| 20 | − 4.52 | +0.96 | −0.15 | +105.5 | +11.4 | +0.6 | 8.19995 | − 11 | +127 |
| 21 | − 3.56 | +0.71 | −0.25 | +116.9 | +11.8 | +0.4 | 8.19984 | +127 | +138 |
| 22 | − 2.85 | +0.41 | −0.30 | +128.7 | +11.3 | −0.5 | 8.20111 | +265 | +138 |
| 23 | − 2.44 | | | +140.0 | | | 8.20376 | | |
| April 5 | −11.11 | −1.07 | | − 30.1 | + 7.2 | | 8.23678 | −359 | |
| 6 | −12.18 | −0.48 | +0.59 | − 22.9 | +12.5 | +5.3 | 8.23319 | −379 | − 20 |
| 7 | −12.66 | +0.07 | +0.55 | − 10.4 | +14.8 | +2.3 | 8.22940 | −386 | − 7 |
| 8 | −12.59 | +0.48 | +0.41 | + 4.4 | +15.0 | +0.2 | 8.22554 | −386 | 0 |
| 9 | −12.11 | +0.76 | +0.28 | + 19.4 | +14.5 | −0.5 | 8.22168 | −382 | + 4 |
| 10 | −11.35 | +0.94 | +0.18 | + 33.9 | +13.4 | −1.1 | 8.21786 | −374 | + 8 |
| 11 | −10.41 | +1.05 | +0.11 | + 47.3 | +12.4 | −1.0 | 8.21412 | −360 | + 14 |
| 12 | − 9.36 | +1.12 | +0.07 | + 59.7 | +11.6 | −0.8 | 8.21052 | −339 | + 21 |
| 13 | − 8.24 | +1.15 | +0.03 | + 71.3 | +11.0 | −0.6 | 8.20713 | −303 | + 36 |
| 14 | − 7.09 | +1.14 | −0.01 | + 82.3 | +10.8 | −0.2 | 8.20410 | −249 | + 54 |
| 15 | − 5.95 | +1.09 | −0.05 | + 93.1 | +11.0 | +0.2 | 8.20161 | −179 | + 70 |
| 16 | − 4.86 | +0.98 | −0.11 | +104.1 | +11.2 | +0.2 | 8.19982 | − 87 | + 92 |
| 17 | − 3.88 | +0.80 | −0.18 | +115.3 | +11.5 | +0.3 | 8.19895 | + 22 | +109 |
| 18 | − 3.08 | +0.58 | −0.22 | +126.8 | +11.2 | −0.3 | 8.19917 | +142 | +120 |
| 19 | − 2.50 | +0.37 | −0.21 | +138.0 | +10.0 | −1.2 | 8.20059 | +274 | +132 |
| 20 | − 2.13 | +0.20 | −0.17 | +148.0 | + 7.5 | −2.5 | 8.20333 | +403 | +129 |
| 21 | − 1.93 | | | +155.5 | | | 8.20736 | | |
| Mai 5 | −14.05 | +0.50 | | + 7.0 | +16.2 | | 8.22831 | −534 | |
| 6 | −13.55 | +0.85 | +0.35 | + 23.2 | +14.6 | −1.6 | 8.22297 | −498 | + 36 |
| 7 | −12.70 | +1.07 | +0.22 | + 37.8 | +12.8 | −1.8 | 8.21799 | −447 | + 51 |
| 8 | −11.63 | +1.18 | +0.11 | + 50.6 | +11.3 | −1.5 | 8.21352 | −396 | + 51 |
| 9 | −10.45 | +1.22 | +0.04 | + 61.9 | +10.5 | −0.8 | 8.20956 | −340 | + 56 |
| 10 | − 9.23 | +1.22 | 0.00 | + 72.4 | +10.1 | −0.4 | 8.20616 | −285 | + 55 |
| 11 | − 8.01 | +1.19 | −0.03 | + 82.5 | +10.0 | −0.1 | 8.20331 | −229 | + 56 |
| 12 | − 6.82 | +1.12 | −0.07 | + 92.5 | +10.2 | +0.2 | 8.20102 | −171 | + 58 |
| 13 | − 5.70 | +0.99 | −0.13 | +102.7 | +10.5 | +0.3 | 8.19931 | −103 | + 68 |
| 14 | − 4.71 | +0.83 | −0.16 | +113.2 | +10.6 | +0.1 | 8.19828 | − 26 | + 77 |
| 15 | − 3.88 | +0.65 | −0.18 | +123.8 | +10.3 | −0.3 | 8.19802 | + 61 | + 87 |
| 16 | − 3.23 | +0.50 | −0.15 | +134.1 | + 9.4 | −0.9 | 8.19863 | +162 | +101 |
| 17 | − 2.73 | +0.38 | −0.12 | +143.5 | + 7.7 | −1.7 | 8.20025 | +273 | +111 |
| 18 | − 2.35 | +0.33 | −0.05 | +151.2 | + 4.8 | −2.9 | 8.20298 | +387 | +114 |
| 19 | − 2.02 | +0.32 | −0.01 | +156.0 | + 1.0 | −3.8 | 8.20685 | +500 | +113 |
| 20 | − 1.70 | +0.31 | −0.01 | +157.0 | − 4.0 | −5.0 | 8.21185 | +601 | +101 |
| 21 | − 1.39 | | | +153.0 | | | 8.21786 | | |

Mittlere Mitternacht Berlin.

| Datum | | $\alpha_☾ - \alpha_k$ | | | $\delta_☾ - \delta_k$ | | | log sin $p_k$ | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Juni | 3 | −13.96 | +0.97 | | + 42.1 | +14.2 | | 8.22293 | −605 | |
| | 4 | −12.99 | +1.16 | +0.19 | + 56.3 | +11.6 | −2.6 | 8.21688 | −532 | + 73 |
| | 5 | −11.83 | +1.24 | +0.08 | + 67.9 | + 9.8 | −1.8 | 8.21156 | −444 | + 88 |
| | 6 | −10.59 | +1.26 | +0.02 | + 77.7 | + 8.8 | −1.0 | 8.20712 | −354 | + 90 |
| | 7 | − 9.33 | +1.23 | −0.03 | + 86.5 | + 8.5 | −0.3 | 8.20358 | −268 | + 86 |
| | 8 | − 8.10 | +1.16 | −0.07 | + 95.0 | + 8.6 | +0.1 | 8.20090 | −185 | + 83 |
| | 9 | − 6.94 | +1.02 | −0.14 | +103.6 | + 8.9 | +0.3 | 8.19905 | −108 | + 77 |
| | 10 | − 5.92 | +0.85 | −0.17 | +112.5 | + 9.1 | +0.2 | 8.19797 | − 35 | + 73 |
| | 11 | − 5.07 | +0.67 | −0.18 | +121.6 | + 8.8 | −0.3 | 8.19762 | + 37 | + 72 |
| | 12 | − 4.40 | +0.52 | −0.15 | +130.4 | + 8.0 | −0.8 | 8.19799 | +112 | + 75 |
| | 13 | − 3.88 | +0.44 | −0.08 | +138.4 | + 6.4 | −1.6 | 8.19911 | +189 | + 77 |
| | 14 | − 3.44 | +0.43 | −0.01 | +144.8 | + 4.1 | −2.3 | 8.20100 | +274 | + 85 |
| | 15 | − 3.01 | +0.48 | +0.05 | +148.9 | + 1.2 | −2.9 | 8.20374 | +363 | + 89 |
| | 16 | − 2.53 | +0.53 | +0.05 | +150.1 | − 2.6 | −3.8 | 8.20737 | +454 | + 91 |
| | 17 | − 2.00 | +0.58 | +0.05 | +147.5 | − 7.3 | −4.7 | 8.21191 | +541 | + 87 |
| | 18 | − 1.42 | +0.56 | −0.02 | +140.2 | −12.8 | −5.5 | 8.21732 | +613 | + 72 |
| | 19 | − 0.86 | | | +127.4 | | | 8.22345 | | |
| Juli | 3 | −11.68 | +1.16 | | + 83.4 | + 9.0 | | 8.21148 | −490 | |
| | 4 | −10.52 | +1.18 | +0.02 | + 92.4 | + 7.6 | −1.4 | 8.20658 | −380 | +110 |
| | 5 | − 9.34 | +1.14 | −0.04 | +100.0 | + 7.2 | −0.4 | 8.20278 | −266 | +114 |
| | 6 | − 8.20 | +1.03 | −0.11 | +107.2 | + 7.2 | 0.0 | 8.20012 | −158 | +108 |
| | 7 | − 7.17 | +0.87 | −0.16 | +114.4 | + 7.2 | 0.0 | 8.19854 | − 59 | + 99 |
| | 8 | − 6.30 | +0.68 | −0.19 | +121.6 | + 7.1 | −0.1 | 8.19795 | + 28 | + 87 |
| | 9 | − 5.62 | +0.52 | −0.16 | +128.7 | + 6.3 | −0.8 | 8.19823 | +106 | + 78 |
| | 10 | − 5.10 | +0.42 | −0.10 | +135.0 | + 4.8 | −1.5 | 8.19929 | +172 | + 66 |
| | 11 | − 4.68 | +0.41 | −0.01 | +139.8 | + 2.6 | −2.2 | 8.20101 | +234 | + 62 |
| | 12 | − 4.27 | +0.47 | +0.06 | +142.4 | − 0.1 | −2.7 | 8.20335 | +293 | + 59 |
| | 13 | − 3.80 | +0.56 | +0.09 | +142.3 | − 3.4 | −3.3 | 8.20628 | +349 | + 56 |
| | 14 | − 3.24 | +0.66 | +0.10 | +138.9 | − 7.1 | −3.7 | 8.20977 | +405 | + 56 |
| | 15 | − 2.58 | +0.70 | +0.04 | +131.8 | −11.4 | −4.3 | 8.21382 | +462 | + 57 |
| | 16 | − 1.88 | +0.70 | 0.00 | +120.4 | −16.2 | −4.8 | 8.21844 | +511 | + 49 |
| | 17 | − 1.18 | +0.56 | −0.14 | +104.2 | −21.3 | −5.1 | 8.22355 | +545 | + 34 |
| | 18 | − 0.62 | +0.28 | −0.28 | + 82.9 | −25.9 | −4.6 | 8.22900 | +557 | + 12 |
| | 19 | − 0.34 | | | + 57.0 | | | 8.23457 | | |
| Aug. | 1 | −10.04 | +1.01 | | +104.6 | + 7.1 | | 8.20698 | −390 | |
| | 2 | − 9.03 | +0.97 | −0.04 | +111.7 | + 6.2 | −0.9 | 8.20308 | −265 | +125 |
| | 3 | − 8.06 | +0.86 | −0.11 | +117.9 | + 6.1 | −0.1 | 8.20043 | −137 | +128 |
| | 4 | − 7.20 | +0.70 | −0.16 | +124.0 | + 5.7 | −0.4 | 8.19906 | − 17 | +120 |
| | 5 | − 6.50 | +0.54 | −0.16 | +129.7 | + 5.0 | −0.7 | 8.19889 | + 91 | +108 |
| | 6 | − 5.96 | +0.41 | −0.13 | +134.7 | + 3.7 | −1.3 | 8.19980 | +179 | + 88 |
| | 7 | − 5.55 | +0.36 | −0.05 | +138.4 | + 1.5 | −2.2 | 8.20159 | +250 | + 71 |
| | 8 | − 5.19 | +0.39 | +0.03 | +139.9 | − 1.3 | −2.8 | 8.20409 | +305 | + 55 |
| | 9 | − 4.80 | | +0.07 | +138.6 | | −3.3 | 8.20714 | | + 37 |

Mittlere Mitternacht Berlin.

| Datum | $\alpha_{☾} - \alpha_k$ | | | $\delta_{☾} - \delta_k$ | | | log sin $p_k$ | | |
|---|---|---|---|---|---|---|---|---|---|
| Aug. 9 | − 4.80<sup></sup>s | +0.46 | +0.07 | +138.6″ | − 4.6 | − 3.3 | 8.20714 | +342 | + 37 |
| 10 | − 4.34 | +0.55 | +0.09 | +134.0 | − 8.4 | − 3.8 | 8.21056 | +366 | + 24 |
| 11 | − 3.79 | +0.63 | +0.08 | +125.6 | −12.4 | − 4.0 | 8.21422 | +383 | + 17 |
| 12 | − 3.16 | +0.65 | +0.02 | +113.2 | −16.5 | − 4.1 | 8.21805 | +393 | + 10 |
| 13 | − 2.51 | +0.61 | −0.04 | + 96.7 | −20.3 | − 3.8 | 8.22198 | +400 | + 7 |
| 14 | − 1.90 | +0.44 | −0.17 | + 76.4 | −23.8 | − 3.5 | 8.22598 | +400 | 0 |
| 15 | − 1.46 | +0.10 | −0.34 | + 52.6 | −26.0 | − 2.2 | 8.22998 | +391 | − 9 |
| 16 | − 1.36 | −0.42 | −0.52 | + 26.6 | −26.1 | − 0.1 | 8.23389 | +366 | − 25 |
| 17 | − 1.78 | | | + 0.5 | | | 8.23755 | | |
| Aug. 31 | − 7.58 | +0.70 | | +126.9 | + 5.2 | | 8.20089 | −115 | |
| Sept. 1 | − 6.88 | +0.58 | −0.12 | +132.1 | + 4.5 | − 0.7 | 8.19974 | + 22 | +137 |
| 2 | − 6.30 | +0.46 | −0.12 | +136.6 | + 3.4 | − 1.1 | 8.19996 | +147 | +125 |
| 3 | − 5.84 | +0.39 | −0.07 | +140.0 | + 1.6 | − 1.8 | 8.20143 | +255 | +108 |
| 4 | − 5.45 | +0.35 | −0.04 | +141.6 | − 1.2 | − 2.8 | 8.20398 | +342 | + 87 |
| 5 | − 5.10 | +0.38 | +0.03 | +140.4 | − 4.6 | − 3.4 | 8.20740 | +398 | + 56 |
| 6 | − 4.72 | +0.43 | +0.05 | +135.8 | − 8.8 | − 4.2 | 8.21138 | +428 | + 30 |
| 7 | − 4.29 | +0.45 | +0.02 | +127.0 | −13.4 | − 4.6 | 8.21566 | +431 | + 3 |
| 8 | − 3.84 | +0.47 | +0.02 | +113.6 | −17.8 | − 4.4 | 8.21997 | +410 | − 21 |
| 9 | − 3.37 | +0.41 | −0.06 | + 95.8 | −21.9 | − 4.1 | 8.22407 | +371 | − 39 |
| 10 | − 2.96 | +0.27 | −0.14 | + 73.9 | −24.8 | − 2.9 | 8.22778 | +323 | − 48 |
| 11 | − 2.69 | 0.00 | −0.27 | + 49.1 | −26.2 | − 1.4 | 8.23101 | +271 | − 52 |
| 12 | − 2.69 | −0.40 | −0.40 | + 22.9 | −25.3 | + 0.9 | 8.23372 | +215 | − 56 |
| 13 | − 3.09 | −0.92 | −0.52 | − 2.4 | −21.4 | + 3.9 | 8.23587 | +164 | − 51 |
| 14 | − 4.01 | −1.45 | −0.53 | − 23.8 | −14.2 | + 7.2 | 8.23751 | +111 | − 53 |
| 15 | − 5.46 | −1.74 | −0.29 | − 38.0 | − 4.6 | + 9.6 | 8.23862 | + 51 | − 60 |
| 16 | − 7.20 | | | − 42.6 | | | 8.23913 | | |
| Sept. 29 | − 6.29 | +0.53 | | +138.3 | + 3.7 | | 8.19982 | + 52 | |
| 30 | − 5.76 | +0.49 | −0.04 | +142.0 | + 2.2 | − 1.5 | 8.20034 | +189 | +137 |
| Okt. 1 | − 5.27 | +0.46 | −0.03 | +144.2 | + 0.2 | − 2.0 | 8.20223 | +315 | +126 |
| 2 | − 4.81 | +0.45 | −0.01 | +144.4 | − 2.8 | − 3.0 | 8.20538 | +424 | +109 |
| 3 | − 4.36 | +0.44 | −0.01 | +141.6 | − 6.9 | − 4.1 | 8.20962 | +500 | + 76 |
| 4 | − 3.92 | +0.43 | −0.01 | +134.7 | −11.8 | − 4.9 | 8.21462 | +539 | + 39 |
| 5 | − 3.49 | +0.37 | −0.06 | +122.9 | −17.3 | − 5.5 | 8.22001 | +541 | + 2 |
| 6 | − 3.12 | +0.25 | −0.12 | +105.6 | −22.6 | − 5.3 | 8.22542 | +500 | − 41 |
| 7 | − 2.87 | +0.05 | −0.20 | + 83.0 | −26.9 | − 4.3 | 8.23042 | +422 | − 78 |
| 8 | − 2.82 | −0.26 | −0.31 | + 56.1 | −28.9 | − 2.0 | 8.23464 | +318 | −104 |
| 9 | − 3.08 | −0.69 | −0.43 | + 27.2 | −27.9 | + 1.0 | 8.23782 | +201 | −117 |
| 10 | − 3.77 | −1.21 | −0.52 | − 0.7 | −23.3 | + 4.6 | 8.23983 | + 86 | −115 |
| 11 | − 4.98 | −1.66 | −0.45 | − 24.0 | −14.9 | + 8.4 | 8.24069 | − 18 | −104 |
| 12 | − 6.64 | −1.83 | −0.17 | − 38.9 | − 4.4 | +10.5 | 8.24051 | −104 | − 86 |
| 13 | − 8.47 | −1.62 | +0.21 | − 43.3 | + 6.2 | +10.6 | 8.23947 | −170 | − 66 |
| 14 | −10.09 | −1.09 | +0.53 | − 37.1 | +14.4 | + 8.2 | 8.23777 | −223 | − 53 |
| 15 | −11.18 | | | − 22.7 | | | 8.23554 | | |

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| Datum | | $\alpha_☾ - \alpha_k$ | | | $\delta_☾ - \delta_k$ | | | log sin $p_k$ | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Okt. | 29 | − 4.57 | +0.64 | | +145.8 | − 0.7 | | 8.20183 | +345 | |
| | 30 | − 3.93 | +0.65 | +0.01 | +145.1 | − 3.8 | − 3.1 | 8.20528 | +468 | +123 |
| | 31 | − 3.28 | +0.63 | −0.02 | +141.3 | − 8.1 | − 4.3 | 8.20996 | +572 | +104 |
| Nov. | 1 | − 2.65 | +0.55 | −0.08 | +133.2 | −13.4 | − 5.3 | 8.21568 | +637 | + 65 |
| | 2 | − 2.10 | +0.40 | −0.15 | +119.8 | −19.6 | − 6.2 | 8.22205 | +658 | + 21 |
| | 3 | − 1.70 | +0.16 | −0.24 | +100.2 | −25.6 | − 6.0 | 8.22863 | +627 | − 31 |
| | 4 | − 1.54 | −0.24 | −0.40 | + 74.6 | −30.3 | − 4.7 | 8.23490 | +539 | − 88 |
| | 5 | − 1.78 | −0.80 | −0.56 | + 44.3 | −31.8 | − 1.5 | 8.24029 | +404 | −135 |
| | 6 | − 2.58 | −1.48 | −0.68 | + 12.5 | −28.6 | + 3.2 | 8.24433 | +233 | −171 |
| | 7 | − 4.06 | −2.14 | −0.66 | − 16.1 | −20.1 | + 8.5 | 8.24666 | + 52 | −181 |
| | 8 | − 6.20 | −2.45 | −0.31 | − 36.2 | − 7.5 | +12.6 | 8.24718 | −119 | −171 |
| | 9 | − 8.65 | −2.21 | +0.24 | − 43.7 | + 5.7 | +13.2 | 8.24599 | −263 | −144 |
| | 10 | −10.86 | −1.52 | +0.69 | − 38.0 | +15.8 | +10.1 | 8.24336 | −367 | −104 |
| | 11 | −12.38 | −0.68 | +0.84 | − 22.2 | +21.1 | + 5.3 | 8.23969 | −431 | − 64 |
| | 12 | −13.06 | +0.02 | +0.70 | − 1.1 | +22.3 | + 1.2 | 8.23538 | −459 | − 28 |
| | 13 | −13.04 | +0.47 | +0.45 | + 21.2 | +21.3 | − 1.0 | 8.23079 | −461 | − 2 |
| | 14 | −12.57 | | | + 42.5 | | | 8.22618 | | |
| Nov. | 27 | − 3.23 | +0.91 | | +140.9 | − 5.0 | | 8.20427 | +461 | |
| | 28 | − 2.32 | +0.90 | −0.01 | +135.9 | − 8.9 | − 3.9 | 8.20888 | +578 | +117 |
| | 29 | − 1.42 | +0.79 | −0.11 | +127.0 | −14.2 | − 5.3 | 8.21466 | +670 | + 92 |
| | 30 | − 0.63 | +0.60 | −0.19 | +112.8 | −20.4 | − 6.2 | 8.22136 | +722 | + 52 |
| Dez. | 1 | − 0.03 | +0.26 | −0.34 | + 92.4 | −26.5 | − 6.1 | 8.22858 | +725 | + 3 |
| | 2 | + 0.23 | −0.31 | −0.57 | + 65.9 | −31.3 | − 4.8 | 8.23583 | +665 | − 60 |
| | 3 | − 0.08 | −1.10 | −0.79 | + 34.6 | −32.6 | − 1.3 | 8.24248 | +536 | −129 |
| | 4 | − 1.18 | −2.06 | −0.96 | + 2.0 | −27.7 | + 4.9 | 8.24784 | +354 | −182 |
| | 5 | − 3.24 | −2.87 | −0.81 | − 25.7 | −16.2 | +11.5 | 8.25138 | +133 | −221 |
| | 6 | − 6.11 | −3.10 | −0.23 | − 41.9 | − 0.5 | +15.7 | 8.25271 | − 96 | −229 |
| | 7 | − 9.21 | −2.55 | +0.55 | − 42.4 | +14.2 | +14.7 | 8.25175 | −305 | −209 |
| | 8 | −11.76 | −1.56 | +0.99 | − 28.2 | +23.4 | + 9.2 | 8.24870 | −469 | −164 |
| | 9 | −13.32 | −0.57 | +0.99 | − 4.8 | +26.3 | + 2.9 | 8.24401 | −577 | −108 |
| | 10 | −13.89 | +0.15 | +0.72 | + 21.5 | +24.8 | − 1.5 | 8.23824 | −625 | − 48 |
| | 11 | −13.74 | +0.58 | +0.43 | + 46.3 | +21.4 | − 3.4 | 8.23199 | −625 | 0 |
| | 12 | −13.16 | +0.81 | +0.23 | + 67.7 | +17.4 | − 4.0 | 8.22574 | −589 | + 36 |
| | 13 | −12.35 | | | + 85.1 | | | 8.21985 | | |
| Dez. | 27 | − 0.71 | +1.05 | | +112.9 | −15.3 | | 8.21325 | +619 | |
| | 28 | + 0.34 | +0.84 | −0.21 | + 97.6 | −20.7 | − 5.4 | 8.21944 | +693 | + 74 |
| | 29 | + 1.18 | +0.46 | −0.38 | + 76.9 | −26.1 | − 5.4 | 8.22637 | +725 | + 32 |
| | 30 | + 1.64 | −0.49 | −0.95 | + 50.8 | −30.2 | − 4.1 | 8.23362 | +710 | − 15 |
| | 31 | + 1.15 | | | + 20.6 | | | 8.24072 | | |

| $12^h$ Mittl. Zeit | Lage gegen den Erdäquator. | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | $i$ | | $\Delta$ | | ☊′ | | $\Delta - $☊ | |
| | ° ′ | ′ | ° ′ | ′ | ° ′ | ′ | ° ′ | ′ |
| Jan. − 3 | 22 25.43 | 0.64 | 229 17.33 | 33.11 | 357 4.54 | 1.46 | 2 41.60 | 1.34 |
| 7 | 22 24.79 | 0.63 | 228 44.22 | 33.12 | 357 6.00 | 1.48 | 2 40.26 | 1.36 |
| 17 | 22 24.16 | 0.62 | 228 11.10 | 33.14 | 357 7.48 | 1.50 | 2 38.90 | 1.37 |
| 27 | 22 23.54 | 0.62 | 227 37.96 | 33.16 | 357 8.98 | 1.51 | 2 37.53 | 1.39 |
| Febr. 6 | 22 22.92 | 0.62 | 227 4.80 | 33.18 | 357 10.49 | 1.53 | 2 36.14 | 1.40 |
| 16 | 22 22.30 | 0.61 | 226 31.62 | 33.19 | 357 12.02 | 1.55 | 2 34.74 | 1.42 |
| 26 | 22 21.69 | 0.61 | 225 58.43 | 33.21 | 357 13.57 | 1.56 | 2 33.32 | 1.43 |
| März 8 | 22 21.08 | 0.60 | 225 25.22 | 33.22 | 357 15.13 | 1.58 | 2 31.89 | 1.45 |
| 18 | 22 20.48 | 0.60 | 224 52.00 | 33.24 | 357 16.71 | 1.59 | 2 30.44 | 1.46 |
| 28 | 22 19.88 | 0.59 | 224 18.76 | 33.25 | 357 18.30 | 1.61 | 2 28.98 | 1.48 |
| April 7 | 22 19.29 | 0.59 | 223 45.51 | 33.27 | 357 19.91 | 1.63 | 2 27.50 | 1.49 |
| 17 | 22 18.70 | 0.58 | 223 12.24 | 33.28 | 357 21.54 | 1.64 | 2 26.01 | 1.51 |
| 27 | 22 18.12 | 0.58 | 222 38.96 | 33.29 | 357 23.18 | 1.66 | 2 24.50 | 1.52 |
| Mai 7 | 22 17.54 | 0.57 | 222 5.67 | 33.31 | 357 24.84 | 1.67 | 2 22.98 | 1.54 |
| 17 | 22 16.97 | 0.56 | 221 32.36 | 33.32 | 357 26.51 | 1.69 | 2 21.44 | 1.55 |
| 27 | 22 16.41 | 0.55 | 220 59.04 | 33.33 | 357 28.20 | 1.70 | 2 19.89 | 1.56 |
| Juni 6 | 22 15.86 | 0.55 | 220 25.71 | 33.34 | 357 29.90 | 1.72 | 2 18.33 | 1.58 |
| 16 | 22 15.31 | 0.54 | 219 52.37 | 33.36 | 357 31.62 | 1.73 | 2 16.75 | 1.59 |
| 26 | 22 14.77 | 0.54 | 219 19.01 | 33.37 | 357 33.35 | 1.75 | 2 15.16 | 1.61 |
| Juli 6 | 22 14.23 | 0.53 | 218 45.64 | 33.39 | 357 35.10 | 1.76 | 2 13.55 | 1.62 |
| 16 | 22 13.70 | 0.52 | 218 12.25 | 33.40 | 357 36.86 | 1.78 | 2 11.93 | 1.63 |
| 26 | 22 13.18 | 0.51 | 217 38.85 | 33.41 | 357 38.64 | 1.79 | 2 10.30 | 1.65 |
| Aug. 5 | 22 12.67 | 0.51 | 217 5.44 | 33.43 | 357 40.43 | 1.80 | 2 8.65 | 1.66 |
| 15 | 22 12.16 | 0.50 | 216 32.01 | 33.44 | 357 42.23 | 1.81 | 2 6.99 | 1.67 |
| 25 | 22 11.66 | 0.50 | 215 58.57 | 33.46 | 357 44.04 | 1.83 | 2 5.32 | 1.68 |
| Sept. 4 | 22 11.16 | 0.49 | 215 25.11 | 33.47 | 357 45.87 | 1.84 | 2 3.64 | 1.69 |
| 14 | 22 10.67 | 0.48 | 214 51.64 | 33.49 | 357 47.71 | 1.86 | 2 1.95 | 1.71 |
| 24 | 22 10.19 | 0.47 | 214 18.15 | 33.49 | 357 49.57 | 1.87 | 2 0.24 | 1.72 |
| Okt. 4 | 22 9.72 | 0.47 | 213 44.66 | 33.51 | 357 51.44 | 1.88 | 1 58.52 | 1.73 |
| 14 | 22 9.25 | 0.46 | 213 11.15 | 33.52 | 357 53.32 | 1.90 | 1 56.79 | 1.74 |
| 24 | 22 8.79 | 0.46 | 212 37.63 | 33.53 | 357 55.22 | 1.91 | 1 55.05 | 1.76 |
| Nov. 3 | 22 8.33 | 0.45 | 212 4.10 | 33.54 | 357 57.13 | 1.92 | 1 53.29 | 1.77 |
| 13 | 22 7.88 | 0.44 | 211 30.56 | 33.54 | 357 59.05 | 1.93 | 1 51.52 | 1.78 |
| 23 | 22 7.44 | 0.44 | 210 57.02 | 33.56 | 358 0.98 | 1.94 | 1 49.74 | 1.79 |
| Dez. 3 | 22 7.00 | 0.43 | 210 23.46 | 33.56 | 358 2.92 | 1.96 | 1 47.95 | 1.80 |
| 13 | 22 6.57 | 0.42 | 209 49.90 | 33.57 | 358 4.88 | 1.96 | 1 46.15 | 1.81 |
| 23 | 22 6.15 | 0.41 | 209 16.33 | 33.58 | 358 6.84 | 1.98 | 1 44.34 | 1.82 |
| 33 | 22 5.74 | | 208 42.75 | | 358 8.82 | | 1 42.52 | |

| 12ʰ Mittl. Zeit | | Aufst. Knoten der Mondbahn ° | ′ | ″ | Mittlere Länge des Mondes ° | ′ | ″ |
|---|---|---|---|---|---|---|---|
| Jan. | 3 | 46 | 35 | 55.6 | 246 | 36 | 4.9 |
| | 7 | 46 | 4 | 9.2 | 18 | 21 | 55.2 |
| | 17 | 45 | 32 | 22.9 | 150 | 7 | 45.5 |
| | 27 | 45 | 0 | 36.5 | 281 | 53 | 35.8 |
| Febr. | 6 | 44 | 28 | 50.2 | 53 | 39 | 26.1 |
| | 16 | 43 | 57 | 3.8 | 185 | 25 | 16.4 |
| | 26 | 43 | 25 | 17.5 | 317 | 11 | 6.7 |
| März | 8 | 42 | 53 | 31.1 | 88 | 56 | 57.0 |
| | 18 | 42 | 21 | 44.8 | 220 | 42 | 47.3 |
| | 28 | 41 | 49 | 58.4 | 352 | 28 | 37.6 |
| April | 7 | 41 | 18 | 12.1 | 124 | 14 | 27.9 |
| | 17 | 40 | 46 | 25.8 | 256 | 0 | 18.2 |
| | 27 | 40 | 14 | 39.4 | 27 | 46 | 8.5 |
| Mai | 7 | 39 | 42 | 53.1 | 159 | 31 | 58.8 |
| | 17 | 39 | 11 | 6.7 | 291 | 17 | 49.1 |
| | 27 | 38 | 39 | 20.4 | 63 | 3 | 39.3 |
| Juni | 6 | 38 | 7 | 34.1 | 194 | 49 | 29.6 |
| | 16 | 37 | 35 | 47.7 | 326 | 35 | 19.9 |
| | 26 | 37 | 4 | 1.4 | 98 | 21 | 10.2 |
| Juli | 6 | 36 | 32 | 15.0 | 230 | 7 | 0.5 |
| | 16 | 36 | 0 | 28.7 | 1 | 52 | 50.8 |
| | 26 | 35 | 28 | 42.3 | 133 | 38 | 41.1 |
| Aug. | 5 | 34 | 56 | 56.0 | 265 | 24 | 31.4 |
| | 15 | 34 | 25 | 9.6 | 37 | 10 | 21.7 |
| | 25 | 33 | 53 | 23.3 | 168 | 56 | 12.0 |
| Sept. | 4 | 33 | 21 | 36.9 | 300 | 42 | 2.2 |
| | 14 | 32 | 49 | 50.6 | 72 | 27 | 52.5 |
| | 24 | 32 | 18 | 4.2 | 204 | 13 | 42.8 |
| Okt. | 4 | 31 | 46 | 17.9 | 335 | 59 | 33.1 |
| | 14 | 31 | 14 | 31.5 | 107 | 45 | 23.4 |
| | 24 | 30 | 42 | 45.2 | 239 | 31 | 13.7 |
| Nov. | 3 | 30 | 10 | 58.9 | 11 | 17 | 4.0 |
| | 13 | 29 | 39 | 12.5 | 143 | 2 | 54.3 |
| | 23 | 29 | 7 | 26.2 | 274 | 48 | 44.6 |
| Dez. | 3 | 28 | 35 | 39.8 | 46 | 34 | 34.9 |
| | 13 | 28 | 3 | 53.5 | 178 | 20 | 25.2 |
| | 23 | 27 | 32 | 7.2 | 310 | 6 | 15.5 |
| | 33 | 27 | 0 | 20.8 | 81 | 52 | 5.8 |

Bewegung der mittleren Länge des Mondes nach mittlerer Sonnenzeit

| d | ° | ′ | ″ |
|---|---|---|---|
| 1 | 13 | 10 | 35.0 |
| 2 | 26 | 21 | 10.1 |
| 3 | 39 | 31 | 45.1 |
| 4 | 52 | 42 | 20.1 |
| 5 | 65 | 52 | 55.1 |
| 6 | 79 | 3 | 30.2 |
| 7 | 92 | 14 | 5.2 |
| 8 | 105 | 24 | 40.2 |
| 9 | 118 | 35 | 15.2 |
| 10 | 131 | 45 | 50.3 |

| h | ° | ′ | ″ |
|---|---|---|---|
| 1 | 0 | 32 | 56.5 |
| 2 | 1 | 5 | 52.9 |
| 3 | 1 | 38 | 49.4 |
| 4 | 2 | 11 | 45.8 |
| 5 | 2 | 44 | 42.3 |
| 6 | 3 | 17 | 38.8 |
| 7 | 3 | 50 | 35.2 |
| 8 | 4 | 23 | 31.7 |
| 9 | 4 | 56 | 28.1 |
| 10 | 5 | 29 | 24.6 |
| 11 | 6 | 2 | 21.1 |
| 12 | 6 | 35 | 17.5 |
| 13 | 7 | 8 | 14.0 |
| 14 | 7 | 41 | 10.4 |
| 15 | 8 | 14 | 6.9 |
| 16 | 8 | 47 | 3.4 |
| 17 | 9 | 19 | 59.8 |
| 18 | 9 | 52 | 56.3 |
| 19 | 10 | 25 | 52.7 |
| 20 | 10 | 58 | 49.2 |
| 21 | 11 | 31 | 45.6 |
| 22 | 12 | 4 | 42.1 |
| 23 | 12 | 37 | 38.5 |
| 24 | 13 | 10 | 35.0 |

| m | ′ | ″ | m | ′ | ″ |
|---|---|---|---|---|---|
| 1 | 0 | 32.9 | 31 | 17 | 1.2 |
| 2 | 1 | 5.9 | 32 | 17 | 34.1 |
| 3 | 1 | 38.8 | 33 | 18 | 7.1 |
| 4 | 2 | 11.8 | 34 | 18 | 40.0 |
| 5 | 2 | 44.7 | 35 | 19 | 12.9 |
| 6 | 3 | 17.6 | 36 | 19 | 45.9 |
| 7 | 3 | 50.6 | 37 | 20 | 18.8 |
| 8 | 4 | 23.5 | 38 | 20 | 51.8 |
| 9 | 4 | 56.5 | 39 | 21 | 24.7 |
| 10 | 5 | 29.4 | 40 | 21 | 57.7 |
| 11 | 6 | 2.4 | 41 | 22 | 30.6 |
| 12 | 6 | 35.3 | 42 | 23 | 3.5 |
| 13 | 7 | 8.2 | 43 | 23 | 36.5 |
| 14 | 7 | 41.2 | 44 | 24 | 9.4 |
| 15 | 8 | 14.1 | 45 | 24 | 42.3 |
| 16 | 8 | 47.1 | 46 | 25 | 15.3 |
| 17 | 9 | 20.0 | 47 | 25 | 48.2 |
| 18 | 9 | 52.9 | 48 | 26 | 21.2 |
| 19 | 10 | 25.9 | 49 | 26 | 54.1 |
| 20 | 10 | 58.8 | 50 | 27 | 27.1 |
| 21 | 11 | 31.8 | 51 | 28 | 0.0 |
| 22 | 12 | 4.7 | 52 | 28 | 32.9 |
| 23 | 12 | 37.6 | 53 | 29 | 5.9 |
| 24 | 13 | 10.6 | 54 | 29 | 38.8 |
| 25 | 13 | 43.5 | 55 | 30 | 11.7 |
| 26 | 14 | 16.5 | 56 | 30 | 44.7 |
| 27 | 14 | 49.4 | 57 | 31 | 17.6 |
| 28 | 15 | 22.3 | 58 | 31 | 50.6 |
| 29 | 15 | 55.3 | 59 | 32 | 23.5 |
| 30 | 16 | 28.2 | 60 | 32 | 56.5 |

| s | ″ |
|---|---|
| 10 | 5.5 |
| 20 | 11.0 |
| 30 | 16.5 |
| 40 | 22.0 |
| 50 | 27.5 |
| 60 | 32.9 |

Meridian und Polhöhe von Berlin.

| Datum | | SONNE Unterg. h m | SONNE Aufg. h m | MOND Unterg. h m | MOND Aufg. h m |
|---|---|---|---|---|---|
| Jan. | 1 | 3 53 | 20 13 | 4 8 | 22 2 |
| | 2 | 3 54 | 20 13 | 5 19 | 22 29 |
| | 3 | 3 55 | 20 13 | 6 36 | 22 49 |
| | 4 | 3 57 | 20 13 | 7 55 | 23 5 |
| | 5 | 3 58 | 20 13 | 9 15 | 23 18 |
| | 6 | 3 59 | 20 12 | 10 34 | 23 30 |
| | 7 | 4 0 | 20 12 | 11 55 | 23 43 |
| | 8 | 4 2 | 20 11 | 13 19 | 23 57 |
| | 9 | 4 3 | 20 11 | 14 46 | — |
| | | | | Aufg. | Unterg. |
| | 10 | 4 4 | 20 10 | 0 14 | 16 16 |
| | 11 | 4 6 | 20 9 | 0 38 | 17 47 |
| | 12 | 4 7 | 20 9 | 1 13 | 19 10 |
| | 13 | 4 9 | 20 8 | 2 4 | 20 16 |
| | 14 | 4 10 | 20 7 | 3 13 | 21 2 |
| | 15 | 4 12 | 20 6 | 4 36 | 21 34 |
| | 16 | 4 14 | 20 5 | 6 5 | 21 55 |
| | 17 | 4 15 | 20 4 | 7 31 | 22 11 |
| | 18 | 4 17 | 20 3 | 8 52 | 22 24 |
| | 19 | 4 18 | 20 2 | 10 9 | 22 35 |
| | 20 | 4 20 | 20 1 | 11 23 | 22 46 |
| | 21 | 4 22 | 20 0 | 12 36 | 22 58 |
| | 22 | 4 24 | 19 59 | 13 49 | 23 11 |
| | 23 | 4 26 | 19 57 | 15 2 | 23 27 |
| | 24 | 4 27 | 19 56 | 16 14 | 23 49 |
| | 25 | 4 29 | 19 55 | 17 25 | — |
| | | | | Unterg. | Aufg. |
| | 26 | 4 31 | 19 53 | 0 19 | 18 29 |
| | 27 | 4 33 | 19 52 | 1 0 | 19 22 |
| | 28 | 4 35 | 19 50 | 1 56 | 20 3 |
| | 29 | 4 37 | 19 49 | 3 5 | 20 33 |
| | 30 | 4 38 | 19 47 | 4 21 | 20 55 |
| | 31 | 4 40 | 19 46 | 5 42 | 21 12 |
| Febr. | 1 | 4 42 | 19 44 | 7 3 | 21 25 |
| | 2 | 4 44 | 19 43 | 8 24 | 21 38 |
| | 3 | 4 46 | 19 41 | 9 45 | 21 50 |
| | 4 | 4 48 | 19 39 | 11 7 | 22 3 |
| | 5 | 4 50 | 19 38 | 12 32 | 22 19 |
| | 6 | 4 51 | 19 36 | 13 59 | 22 40 |
| | 7 | 4 53 | 19 34 | 15 28 | 23 8 |

| Datum | | SONNE Unterg. h m | SONNE Aufg. h m | MOND Unterg. h m | MOND Aufg. h m |
|---|---|---|---|---|---|
| Febr. | 8 | 4 55 | 19 32 | 16 52 | 23 51 |
| | 9 | 4 57 | 19 30 | 18 3 | — |
| | | | | Aufg. | Unterg. |
| | 10 | 4 59 | 19 28 | 0 51 | 18 55 |
| | 11 | 5 1 | 19 27 | 2 7 | 19 32 |
| | 12 | 5 3 | 19 25 | 3 33 | 19 57 |
| | 13 | 5 5 | 19 23 | 5 1 | 20 15 |
| | 14 | 5 7 | 19 21 | 6 25 | 20 29 |
| | 15 | 5 9 | 19 19 | 7 45 | 20 41 |
| | 16 | 5 11 | 19 17 | 9 2 | 20 52 |
| | 17 | 5 13 | 19 15 | 10 17 | 21 3 |
| | 18 | 5 15 | 19 13 | 11 31 | 21 15 |
| | 19 | 5 16 | 19 11 | 12 45 | 21 30 |
| | 20 | 5 18 | 19 9 | 13 59 | 21 50 |
| | 21 | 5 20 | 19 6 | 15 11 | 22 16 |
| | 22 | 5 22 | 19 4 | 16 18 | 22 52 |
| | 23 | 5 24 | 19 2 | 17 16 | 23 42 |
| | 24 | 5 26 | 19 0 | 18 1 | — |
| | | | | Unterg. | Aufg. |
| | 25 | 5 28 | 18 58 | 0 46 | 18 34 |
| | 26 | 5 29 | 18 56 | 2 0 | 18 59 |
| | 27 | 5 31 | 18 53 | 3 20 | 19 17 |
| | 28 | 5 33 | 18 51 | 4 43 | 19 32 |
| März | 1 | 5 35 | 18 49 | 6 6 | 19 45 |
| | 2 | 5 37 | 18 47 | 7 29 | 19 57 |
| | 3 | 5 39 | 18 45 | 8 53 | 20 10 |
| | 4 | 5 41 | 18 42 | 10 19 | 20 25 |
| | 5 | 5 43 | 18 40 | 11 47 | 20 44 |
| | 6 | 5 44 | 18 38 | 13 16 | 21 10 |
| | 7 | 5 46 | 18 35 | 14 41 | 21 46 |
| | 8 | 5 48 | 18 33 | 15 56 | 22 39 |
| | 9 | 5 50 | 18 31 | 16 53 | 23 49 |
| | 10 | 5 52 | 18 28 | 17 33 | — |
| | | | | Aufg. | Unterg. |
| | 11 | 5 53 | 18 26 | 1 11 | 18 1 |
| | 12 | 5 55 | 18 24 | 2 37 | 18 20 |
| | 13 | 5 57 | 18 22 | 4 1 | 18 35 |
| | 14 | 5 59 | 18 19 | 5 23 | 18 47 |
| | 15 | 6 1 | 18 17 | 6 41 | 18 58 |

Meridian und Polhöhe von Berlin.

| Datum | SONNE Unterg. | SONNE Aufg. | MOND Aufg. | MOND Unterg. |
|---|---|---|---|---|
| | h m | h m | h m | h m |
| März 16 | 6 2 | 18 15 | 7 57 | 19 9 |
| 17 | 6 4 | 18 12 | 9 12 | 19 21 |
| 18 | 6 6 | 18 10 | 10 27 | 19 34 |
| 19 | 6 8 | 18 8 | 11 42 | 19 51 |
| 20 | 6 9 | 18 5 | 12 55 | 20 14 |
| 21 | 6 11 | 18 3 | 14 5 | 20 46 |
| 22 | 6 13 | 18 0 | 15 7 | 21 29 |
| 23 | 6 15 | 17 58 | 15 57 | 22 27 |
| 24 | 6 16 | 17 56 | 16 34 | 23 37 |
| 25 | 6 18 | 17 53 | 17 2 | — |
| | | | Unterg. | Aufg. |
| 26 | 6 20 | 17 51 | 0 54 | 17 22 |
| 27 | 6 22 | 17 49 | 2 16 | 17 38 |
| 28 | 6 23 | 17 46 | 3 39 | 17 51 |
| 29 | 6 25 | 17 44 | 5 3 | 18 3 |
| 30 | 6 27 | 17 41 | 6 28 | 18 16 |
| 31 | 6 29 | 17 39 | 7 55 | 18 30 |
| April 1 | 6 30 | 17 37 | 9 26 | 18 47 |
| 2 | 6 32 | 17 34 | 10 59 | 19 11 |
| 3 | 6 34 | 17 32 | 12 29 | 19 44 |
| 4 | 6 36 | 17 30 | 13 49 | 20 33 |
| 5 | 6 37 | 17 27 | 14 52 | 21 38 |
| 6 | 6 39 | 17 25 | 15 37 | 22 57 |
| 7 | 6 41 | 17 23 | 16 7 | — |
| | | | Aufg. | Unterg. |
| 8 | 6 42 | 17 21 | 0 21 | 16 28 |
| 9 | 6 44 | 17 18 | 1 45 | 16 43 |
| 10 | 6 46 | 17 16 | 3 6 | 16 56 |
| 11 | 6 48 | 17 14 | 4 24 | 17 7 |
| 12 | 6 49 | 17 11 | 5 40 | 17 17 |
| 13 | 6 51 | 17 9 | 6 55 | 17 28 |
| 14 | 6 53 | 17 7 | 8 9 | 17 40 |
| 15 | 6 55 | 17 5 | 9 24 | 17 55 |
| 16 | 6 56 | 17 3 | 10 40 | 18 15 |
| 17 | 6 58 | 17 0 | 11 52 | 18 43 |
| 18 | 7 0 | 16 58 | 12 57 | 19 21 |
| 19 | 7 2 | 16 56 | 13 52 | 20 13 |
| 20 | 7 3 | 16 54 | 14 34 | 21 18 |
| 21 | 7 5 | 16 52 | 15 4 | 22 31 |
| 22 | 7 7 | 16 50 | 15 27 | 23 50 |

| Datum | SONNE Unterg. | SONNE Aufg. | MOND Unterg. | MOND Aufg. |
|---|---|---|---|---|
| | h m | h m | h m | h m |
| April 23 | 7 9 | 16 47 | — | 15 44 |
| 24 | 7 10 | 16 45 | 1 11 | 15 57 |
| 25 | 7 12 | 16 43 | 2 33 | 16 10 |
| 26 | 7 14 | 16 41 | 3 57 | 16 22 |
| 27 | 7 15 | 16 39 | 5 23 | 16 35 |
| 28 | 7 17 | 16 37 | 6 54 | 16 51 |
| 29 | 7 19 | 16 35 | 8 28 | 17 11 |
| 30 | 7 21 | 16 33 | 10 3 | 17 41 |
| Mai 1 | 7 22 | 16 31 | 11 32 | 18 24 |
| 2 | 7 24 | 16 29 | 12 45 | 19 25 |
| 3 | 7 26 | 16 27 | 13 37 | 20 42 |
| 4 | 7 27 | 16 25 | 14 12 | 22 7 |
| 5 | 7 29 | 16 23 | 14 35 | 23 33 |
| 6 | 7 31 | 16 21 | 14 52 | — |
| | | | Aufg. | Unterg. |
| 7 | 7 32 | 16 20 | 0 54 | 15 5 |
| 8 | 7 34 | 16 18 | 2 12 | 15 16 |
| 9 | 7 36 | 16 16 | 3 28 | 15 26 |
| 10 | 7 37 | 16 14 | 4 42 | 15 37 |
| 11 | 7 39 | 16 13 | 5 56 | 15 48 |
| 12 | 7 41 | 16 11 | 7 10 | 16 2 |
| 13 | 7 42 | 16 9 | 8 25 | 16 20 |
| 14 | 7 44 | 16 8 | 9 39 | 16 45 |
| 15 | 7 45 | 16 6 | 10 47 | 17 19 |
| 16 | 7 47 | 16 5 | 11 46 | 18 5 |
| 17 | 7 48 | 16 3 | 12 32 | 19 5 |
| 18 | 7 50 | 16 2 | 13 6 | 20 16 |
| 19 | 7 51 | 16 0 | 13 31 | 21 32 |
| 20 | 7 53 | 15 59 | 13 49 | 22 50 |
| 21 | 7 54 | 15 58 | 14 4 | — |
| | | | Unterg. | Aufg. |
| 22 | 7 56 | 15 56 | 0 9 | 14 16 |
| 23 | 7 57 | 15 55 | 1 29 | 14 28 |
| 24 | 7 59 | 15 54 | 2 52 | 14 40 |
| 25 | 8 0 | 15 53 | 4 19 | 14 54 |
| 26 | 8 2 | 15 51 | 5 50 | 15 11 |
| 27 | 8 3 | 15 50 | 7 26 | 15 36 |
| 28 | 8 4 | 15 49 | 9 1 | 16 13 |
| 29 | 8 5 | 15 48 | 10 25 | 17 7 |
| 30 | 8 7 | 15 47 | 11 28 | 18 21 |

Meridian und Polhöhe von Berlin.

| Datum | | SONNE | | MOND | |
|---|---|---|---|---|---|
| | | Uuterg. | Aufg. | Unterg. | Aufg. |
| | | h m | h m | h m | h m |
| Mai | 31 | 8 8 | 15 46 | 12 11 | 19 46 |
| Juni | 1 | 8 9 | 15 45 | 12 39 | 21 15 |
| | 2 | 8 10 | 15 45 | 12 59 | 22 40 |
| | 3 | 8 11 | 15 44 | 13 13 | — |
| | | | | Aufg. | Unterg. |
| | 4 | 8 12 | 15 43 | 0 1 | 13 25 |
| | 5 | 8 13 | 15 42 | 1 17 | 13 35 |
| | 6 | 8 14 | 15 42 | 2 31 | 13 46 |
| | 7 | 8 15 | 15 41 | 3 45 | 13 57 |
| | 8 | 8 16 | 15 41 | 4 59 | 14 10 |
| | 9 | 8 17 | 15 40 | 6 13 | 14 26 |
| | 10 | 8 18 | 15 40 | 7 27 | 14 48 |
| | 11 | 8 19 | 15 40 | 8 38 | 15 19 |
| | 12 | 8 19 | 15 39 | 9 40 | 16 2 |
| | 13 | 8 20 | 15 39 | 10 30 | 16 58 |
| | 14 | 8 21 | 15 39 | 11 8 | 18 5 |
| | 15 | 8 21 | 15 39 | 11 35 | 19 19 |
| | 16 | 8 22 | 15 39 | 11 54 | 20 36 |
| | 17 | 8 22 | 15 39 | 12 10 | 21 53 |
| | 18 | 8 23 | 15 39 | 12 23 | 23 11 |
| | 19 | 8 23 | 15 39 | 12 34 | — |
| | | | | Unterg. | Aufg. |
| | 20 | 8 23 | 15 39 | 0 30 | 12 45 |
| | 21 | 8 24 | 15 39 | 1 52 | 12 58 |
| | 22 | 8 24 | 15 39 | 3 18 | 13 13 |
| | 23 | 8 24 | 15 39 | 4 50 | 13 34 |
| | 24 | 8 24 | 15 40 | 6 24 | 14 3 |
| | 25 | 8 24 | 15 40 | 7 54 | 14 48 |
| | 26 | 8 24 | 15 40 | 9 9 | 15 53 |
| | 27 | 8 24 | 15 41 | 10 3 | 17 16 |
| | 28 | 8 24 | 15 41 | 10 39 | 18 48 |
| | 29 | 8 24 | 15 42 | 11 2 | 20 18 |
| | 30 | 8 24 | 15 43 | 11 19 | 21 43 |
| Juli | 1 | 8 24 | 15 43 | 11 32 | 23 3 |
| | 2 | 8 24 | 15 44 | 11 43 | — |
| | | | | Aufg. | Unterg. |
| | 3 | 8 23 | 15 45 | 0 19 | 11 53 |
| | 4 | 8 23 | 15 46 | 1 34 | 12 4 |
| | 5 | 8 22 | 15 46 | 2 48 | 12 17 |

| Datum | | SONNE | | MOND | |
|---|---|---|---|---|---|
| | | Unterg. | Aufg. | Aufg. | Unterg. |
| | | h m | h m | h m | h m |
| Juli | 6 | 8 22 | 15 47 | 4 3 | 12 32 |
| | 7 | 8 21 | 15 48 | 5 17 | 12 52 |
| | 8 | 8 21 | 15 49 | 6 28 | 13 20 |
| | 9 | 8 20 | 15 50 | 7 34 | 13 59 |
| | 10 | 8 19 | 15 51 | 8 28 | 14 51 |
| | 11 | 8 18 | 15 52 | 9 9 | 15 56 |
| | 12 | 8 18 | 15 53 | 9 39 | 17 9 |
| | 13 | 8 17 | 15 54 | 10 0 | 18 25 |
| | 14 | 8 16 | 15 56 | 10 17 | 19 43 |
| | 15 | 8 15 | 15 57 | 10 30 | 21 0 |
| | 16 | 8 14 | 15 58 | 10 42 | 22 17 |
| | 17 | 8 13 | 15 59 | 10 52 | 23 36 |
| | 18 | 8 12 | 16 1 | 11 4 | — |
| | | | | Unterg. | Aufg. |
| | 19 | 8 10 | 16 2 | 0 58 | 11 18 |
| | 20 | 8 9 | 16 3 | 2 25 | 11 35 |
| | 21 | 8 8 | 16 5 | 3 55 | 11 59 |
| | 22 | 8 7 | 16 6 | 5 26 | 12 35 |
| | 23 | 8 5 | 16 8 | 6 47 | 13 29 |
| | 24 | 8 4 | 16 9 | 7 50 | 14 44 |
| | 25 | 8 3 | 16 10 | 8 33 | 16 13 |
| | 26 | 8 1 | 16 12 | 9 2 | 17 46 |
| | 27 | 8 0 | 16 13 | 9 22 | 19 15 |
| | 28 | 7 58 | 16 15 | 9 37 | 20 40 |
| | 29 | 7 57 | 16 16 | 9 49 | 22 0 |
| | 30 | 7 55 | 16 18 | 10 0 | 23 18 |
| | 31 | 7 53 | 16 19 | 10 11 | — |
| | | | | Aufg. | Unterg. |
| Aug. | 1 | 7 52 | 16 21 | 0 34 | 10 23 |
| | 2 | 7 50 | 16 23 | 1 49 | 10 37 |
| | 3 | 7 48 | 16 24 | 3 4 | 10 55 |
| | 4 | 7 47 | 16 26 | 4 17 | 11 20 |
| | 5 | 7 45 | 16 27 | 5 26 | 11 55 |
| | 6 | 7 43 | 16 29 | 6 24 | 12 43 |
| | 7 | 7 41 | 16 30 | 7 9 | 13 44 |
| | 8 | 7 39 | 16 32 | 7 42 | 14 56 |
| | 9 | 7 37 | 16 34 | 8 6 | 16 13 |
| | 10 | 7 36 | 16 35 | 8 24 | 17 32 |
| | 11 | 7 34 | 16 37 | 8 38 | 18 49 |
| | 12 | 7 32 | 16 39 | 8 50 | 20 7 |

Meridian und Polhöhe von Berlin.

| Datum | SONNE Unterg. | SONNE Aufg. | MOND Aufg. | MOND Unterg. |
|---|---|---|---|---|
| | h m | h m | h m | h m |
| Aug. 13 | 7 30 | 16 40 | 9 1 | 21 27 |
| 14 | 7 28 | 16 42 | 9 12 | 22 48 |
| 15 | 7 26 | 16 44 | 9 24 | — |
| | | | Unterg. | Aufg. |
| 16 | 7 24 | 16 45 | 0 11 | 9 39 |
| 17 | 7 22 | 16 47 | 1 38 | 10 0 |
| 18 | 7 20 | 16 49 | 3 7 | 10 30 |
| 19 | 7 18 | 16 50 | 4 30 | 11 15 |
| 20 | 7 15 | 16 52 | 5 39 | 12 20 |
| 21 | 7 13 | 16 54 | 6 28 | 13 42 |
| 22 | 7 11 | 16 55 | 7 2 | 15 13 |
| 23 | 7 9 | 16 57 | 7 25 | 16 44 |
| 24 | 7 7 | 16 59 | 7 41 | 18 12 |
| 25 | 7 5 | 17 0 | 7 54 | 19 36 |
| 26 | 7 2 | 17 2 | 8 6 | 20 56 |
| 27 | 7 0 | 17 4 | 8 17 | 22 14 |
| 28 | 6 58 | 17 5 | 8 28 | 23 31 |
| 29 | 6 56 | 17 7 | 8 41 | — |
| | | | Aufg. | Unterg. |
| 30 | 6 53 | 17 9 | 0 48 | 8 58 |
| 31 | 6 51 | 17 10 | 2 3 | 9 20 |
| Sept. 1 | 6 49 | 17 12 | 3 14 | 9 50 |
| 2 | 6 47 | 17 14 | 4 17 | 10 33 |
| 3 | 6 44 | 17 15 | 5 7 | 11 30 |
| 4 | 6 42 | 17 17 | 5 44 | 12 38 |
| 5 | 6 40 | 17 19 | 6 11 | 13 54 |
| 6 | 6 37 | 17 20 | 6 31 | 15 13 |
| 7 | 6 35 | 17 22 | 6 46 | 16 32 |
| 8 | 6 33 | 17 24 | 6 58 | 17 52 |
| 9 | 6 30 | 17 25 | 7 9 | 19 12 |
| 10 | 6 28 | 17 27 | 7 20 | 20 33 |
| 11 | 6 26 | 17 29 | 7 32 | 21 58 |
| 12 | 6 23 | 17 30 | 7 46 | 23 25 |
| 13 | 6 21 | 17 32 | 8 4 | — |
| | | | Unterg. | Aufg. |
| 14 | 6 19 | 17 34 | 0 54 | 8 30 |
| 15 | 6 16 | 17 35 | 2 19 | 9 9 |
| 16 | 6 14 | 17 37 | 3 32 | 10 6 |
| 17 | 6 11 | 17 39 | 4 27 | 11 21 |

| Datum | SONNE Unterg. | SONNE Aufg. | MOND Unterg. | MOND Aufg. |
|---|---|---|---|---|
| | h m | h m | h m | h m |
| Sept. 18 | 6 9 | 17 40 | 5 4 | 12 48 |
| 19 | 6 7 | 17 42 | 5 29 | 14 18 |
| 20 | 6 4 | 17 44 | 5 47 | 15 45 |
| 21 | 6 2 | 17 45 | 6 1 | 17 9 |
| 22 | 6 0 | 17 47 | 6 12 | 18 31 |
| 23 | 5 57 | 17 49 | 6 23 | 19 51 |
| 24 | 5 55 | 17 51 | 6 34 | 21 9 |
| 25 | 5 52 | 17 52 | 6 46 | 22 27 |
| 26 | 5 50 | 17 54 | 7 1 | 23 45 |
| 27 | 5 48 | 17 56 | 7 20 | — |
| | | | Aufg. | Unterg. |
| 28 | 5 45 | 17 57 | 0 59 | 7 47 |
| 29 | 5 43 | 17 59 | 2 7 | 8 25 |
| 30 | 5 41 | 18 1 | 3 2 | 9 16 |
| Okt. 1 | 5 38 | 18 2 | 3 44 | 10 20 |
| 2 | 5 36 | 18 4 | 4 14 | 11 32 |
| 3 | 5 34 | 18 6 | 4 36 | 12 50 |
| 4 | 5 31 | 18 7 | 4 52 | 14 10 |
| 5 | 5 29 | 18 9 | 5 5 | 15 30 |
| 6 | 5 27 | 18 11 | 5 16 | 16 50 |
| 7 | 5 24 | 18 13 | 5 27 | 18 12 |
| 8 | 5 22 | 18 14 | 5 39 | 19 38 |
| 9 | 5 20 | 18 16 | 5 52 | 21 7 |
| 10 | 5 17 | 18 18 | 6 9 | 22 38 |
| 11 | 5 15 | 18 20 | 6 32 | — |
| | | | Unterg. | Aufg. |
| 12 | 5 13 | 18 22 | 0 7 | 7 7 |
| 13 | 5 10 | 18 23 | 1 26 | 7 59 |
| 14 | 5 8 | 18 25 | 2 26 | 9 9 |
| 15 | 5 6 | 18 27 | 3 7 | 10 32 |
| 16 | 5 4 | 18 29 | 3 35 | 12 0 |
| 17 | 5 2 | 18 31 | 3 54 | 13 27 |
| 18 | 4 59 | 18 32 | 4 9 | 14 51 |
| 19 | 4 57 | 18 34 | 4 20 | 16 11 |
| 20 | 4 55 | 18 36 | 4 31 | 17 30 |
| 21 | 4 53 | 18 38 | 4 41 | 18 49 |
| 22 | 4 51 | 18 40 | 4 52 | 20 7 |
| 23 | 4 49 | 18 41 | 5 6 | 21 25 |
| 24 | 4 47 | 18 43 | 5 23 | 22 41 |
| 25 | 4 45 | 18 45 | 5 47 | 23 53 |

Meridian und Polhöhe von Berlin.

| Datum | | SONNE Unterg. | SONNE Aufg. | MOND Aufg. | MOND Unterg. |
|---|---|---|---|---|---|
| | | h m | h m | h m | h m |
| Okt. | 26 | 4 43 | 18 47 | — | 6 20 |
| | 27 | 4 40 | 18 49 | 0 54 | 7 5 |
| | 28 | 4 38 | 18 50 | 1 41 | 8 4 |
| | 29 | 4 36 | 18 52 | 2 15 | 9 13 |
| | 30 | 4 34 | 18 54 | 2 40 | 10 28 |
| | 31 | 4 32 | 18 56 | 2 58 | 11 45 |
| Nov. | 1 | 4 31 | 18 58 | 3 12 | 13 4 |
| | 2 | 4 29 | 19 0 | 3 23 | 14 23 |
| | 3 | 4 27 | 19 2 | 3 34 | 15 44 |
| | 4 | 4 25 | 19 4 | 3 45 | 17 8 |
| | 5 | 4 23 | 19 6 | 3 57 | 18 36 |
| | 6 | 4 21 | 19 7 | 4 12 | 20 9 |
| | 7 | 4 19 | 19 9 | 4 33 | 21 43 |
| | 8 | 4 18 | 19 11 | 5 4 | 23 10 |
| | 9 | 4 16 | 19 13 | 5 50 | — |
| | | | | Unterg. | Aufg. |
| | 10 | 4 14 | 19 15 | 0 20 | 6 56 |
| | 11 | 4 13 | 19 17 | 1 8 | 8 18 |
| | 12 | 4 11 | 19 18 | 1 40 | 9 46 |
| | 13 | 4 10 | 19 20 | 2 2 | 11 14 |
| | 14 | 4 8 | 19 22 | 2 17 | 12 38 |
| | 15 | 4 7 | 19 24 | 2 29 | 13 58 |
| | 16 | 4 5 | 19 26 | 2 40 | 15 16 |
| | 17 | 4 4 | 19 27 | 2 50 | 16 33 |
| | 18 | 4 2 | 19 29 | 3 1 | 17 51 |
| | 19 | 4 1 | 19 31 | 3 13 | 19 8 |
| | 20 | 4 0 | 19 33 | 3 29 | 20 25 |
| | 21 | 3 58 | 19 34 | 3 50 | 21 39 |
| | 22 | 3 57 | 19 36 | 4 19 | 22 44 |
| | 23 | 3 56 | 19 38 | 4 59 | 23 36 |
| | 24 | 3 55 | 19 40 | 5 53 | — |
| | | | | Aufg. | Unterg. |
| | 25 | 3 54 | 19 41 | 0 15 | 6 58 |
| | 26 | 3 53 | 19 43 | 0 43 | 8 11 |
| | 27 | 3 52 | 19 44 | 1 3 | 9 26 |
| | 28 | 3 51 | 19 46 | 1 18 | 10 42 |

| Datum | | SONNE Unterg. | SONNE Aufg. | MOND Aufg. | MOND Unterg. |
|---|---|---|---|---|---|
| | | h m | h m | h m | h m |
| Nov. | 29 | 3 50 | 19 47 | 1 30 | 11 59 |
| | 30 | 3 49 | 19 49 | 1 41 | 13 17 |
| Dez. | 1 | 3 48 | 19 50 | 1 51 | 14 37 |
| | 2 | 3 48 | 19 52 | 2 2 | 16 1 |
| | 3 | 3 47 | 19 53 | 2 15 | 17 31 |
| | 4 | 3 46 | 19 55 | 2 33 | 19 6 |
| | 5 | 3 46 | 19 56 | 2 58 | 20 39 |
| | 6 | 3 45 | 19 57 | 3 37 | 22 0 |
| | 7 | 3 45 | 19 58 | 4 35 | 23 0 |
| | 8 | 3 45 | 20 0 | 5 54 | 23 40 |
| | 9 | 3 44 | 20 1 | 7 24 | — |
| | | | | Unterg. | Aufg. |
| | 10 | 3 44 | 20 2 | 0 6 | 8 57 |
| | 11 | 3 44 | 20 3 | 0 24 | 10 24 |
| | 12 | 3 44 | 20 4 | 0 37 | 11 47 |
| | 13 | 3 44 | 20 5 | 0 48 | 13 6 |
| | 14 | 3 44 | 20 6 | 0 59 | 14 23 |
| | 15 | 3 44 | 20 7 | 1 9 | 15 39 |
| | 16 | 3 44 | 20 8 | 1 21 | 16 56 |
| | 17 | 3 44 | 20 9 | 1 35 | 18 12 |
| | 18 | 3 44 | 20 9 | 1 53 | 19 27 |
| | 19 | 3 44 | 20 10 | 2 20 | 20 35 |
| | 20 | 3 44 | 20 11 | 2 57 | 21 32 |
| | 21 | 3 45 | 20 11 | 3 46 | 22 15 |
| | 22 | 3 45 | 20 12 | 4 48 | 22 45 |
| | 23 | 3 46 | 20 12 | 5 59 | 23 7 |
| | 24 | 3 46 | 20 12 | 7 14 | 23 24 |
| | 25 | 3 47 | 20 13 | 8 29 | 23 36 |
| | 26 | 3 48 | 20 13 | 9 44 | 23 47 |
| | 27 | 3 49 | 20 13 | 10 59 | 23 57 |
| | 28 | 3 49 | 20 13 | 12 15 | — |
| | | | | Aufg. | Unterg. |
| | 29 | 3 50 | 20 14 | 0 8 | 13 34 |
| | 30 | 3 51 | 20 14 | 0 19 | 14 58 |
| | 31 | 3 52 | 20 14 | 0 34 | 16 28 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Jan. 0 | 19 53 16.62 | +0 3.87 | −20 54 41.8 | +17 51.6 | 9.917487 | 1 17 | 4 5 |
| 1 | 19 53 20.49 | −0 44.31 | 20 36 50.2 | 16 34.4 | 9.904549 | 1 13 | 4 7 |
| 2 | 19 52 36.18 | 1 33.88 | 20 20 15.8 | 15 2.6 | 9.891827 | 1 9 | 4 9 |
| 3 | 19 51 2.30 | 2 23.50 | 20 5 13.2 | 13 18.7 | 9.879536 | 1 3 | 4 10 |
| 4 | 19 48 38.80 | −3 11.51 | 19 51 54.5 | +11 25.9 | 9.867916 | 0 57 | 4 12 |
| 5 | 19 45 27.29 | 3 55.96 | −19 40 28.6 | 9 27.7 | 9.857223 | 0 50 | 4 13 |
| 6 | 19 41 31.33 | 4 34.84 | 19 31 0.9 | 7 28.2 | 9.847718 | 0 42 | 4 14 |
| 7 | 19 36 56.49 | 5 6.18 | 19 23 32.7 | 5 31.0 | 9.839646 | 0 33 | 4 15 |
| 8 | 19 31 50.31 | 5 28.31 | 19 18 1.7 | 3 38.7 | 9.833221 | 0 24 | 4 15 |
| 9 | 19 26 22.00 | −5 40.16 | 19 14 23.0 | +1 53.5 | 9.828603 | 0 15 | 4 16 |
| 10 | 19 20 41.84 | 5 41.29 | −19 12 29.5 | +0 16.3 | 9.825887 | 0 5 | 4 16 |
| 11 | 19 15 0.55 | 5 32.01 | 19 12 13.2 | −1 12.8 | 9.825092 | 23 56 | 4 16 |
| 12 | 19 9 28.54 | 5 13.36 | 19 13 26.0 | 2 33.8 | 9.826166 | 23 46 | 4 16 |
| 13 | 19 4 15.18 | 4 46.80 | 19 15 59.8 | 3 46.8 | 9.828988 | 23 37 | 4 16 |
| 14 | 18 59 28.38 | −4 14.13 | 19 19 46.6 | −4 52.2 | 9.833388 | 23 28 | 4 15 |
| 15 | 18 55 14.25 | 3 37.18 | −19 24 38.8 | 5 49.8 | 9.839160 | 23 20 | 4 15 |
| 16 | 18 51 37.07 | 2 57.73 | 19 30 28.6 | 6 39.6 | 9.846085 | 23 13 | 4 14 |
| 17 | 18 48 39.34 | 2 17.25 | 19 37 8.2 | 7 21.4 | 9.853940 | 23 6 | 4 14 |
| 18 | 18 46 22.09 | 1 36.96 | 19 44 29.6 | 7 54.7 | 9.862513 | 22 59 | 4 13 |
| 19 | 18 44 45.13 | −0 57.78 | 19 52 24.3 | −8 19.3 | 9.871615 | 22 54 | 4 12 |
| 20 | 18 43 47.35 | −0 20.35 | −20 0 43.6 | 8 35.6 | 9.881076 | 22 49 | 4 11 |
| 21 | 18 43 27.00 | +0 14.89 | 20 9 19.2 | 8 43.4 | 9.890752 | 22 45 | 4 10 |
| 22 | 18 43 41.89 | 0 47.76 | 20 18 2.6 | 8 42.8 | 9.900523 | 22 41 | 4 9 |
| 23 | 18 44 29.65 | 1 18.18 | 20 26 45.4 | 8 34.7 | 9.910293 | 22 38 | 4 8 |
| 24 | 18 45 47.83 | +1 46.13 | 20 35 20.1 | −8 19.1 | 9.919983 | 22 35 | 4 7 |
| 25 | 18 47 33.96 | 2 11.70 | −20 43 39.2 | 7 56.7 | 9.929533 | 22 33 | 4 6 |
| 26 | 18 49 45.66 | 2 35.03 | 20 51 35.9 | 7 28.2 | 9.938898 | 22 31 | 4 5 |
| 27 | 18 52 20.69 | 2 56.26 | 20 59 4.1 | 6 54.0 | 9.948043 | 22 30 | 4 4 |
| 28 | 18 55 16.95 | 3 15.57 | 21 5 58.1 | 6 14.3 | 9.956944 | 22 29 | 4 4 |
| 29 | 18 58 32.52 | +3 33.08 | 21 12 12.4 | −5 30.1 | 9.965585 | 22 28 | 4 3 |
| 30 | 19 2 5.60 | 3 48.98 | −21 17 42.5 | 4 42.1 | 9.973955 | 22 28 | 4 2 |
| 31 | 19 5 54.58 | 4 3.41 | 21 22 24.6 | 3 50.5 | 9.982049 | 22 28 | 4 2 |
| Febr. 1 | 19 9 57.99 | 4 16.51 | 21 26 15.1 | 2 55.3 | 9.989866 | 22 28 | 4 1 |
| 2 | 19 14 14.50 | 4 28.39 | 21 29 10.4 | 1 56.9 | 9.997407 | 22 28 | 4 1 |
| 3 | 19 18 42.89 | +4 39.20 | 21 31 7.3 | −0 56.1 | 0.004676 | 22 29 | 4 1 |
| 4 | 19 23 22.09 | 4 49.03 | −21 32 3.4 | +0 7.1 | 0.011676 | 22 29 | 4 1 |
| 5 | 19 28 11.12 | 4 57.97 | 21 31 56.3 | 1 12.3 | 0.018415 | 22 30 | 4 1 |
| 6 | 19 33 9.09 | 5 6.12 | 21 30 44.0 | 2 19.3 | 0.024900 | 22 31 | 4 1 |
| 7 | 19 38 15.21 | 5 13.54 | 21 28 24.7 | 3 27.8 | 0.031138 | 22 32 | 4 1 |
| 8 | 19 43 28.75 | | 21 24 56.9 | | 0.037136 | 22 34 | 4 2 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Febr. 7 | 19 38 15.21 | +5 13.54 | −21 28 24.7 | + 3 27.8 | 0.031138 | 22 32 | 4 1 |
| 8 | 19 43 28.75 | 5 20.33 | 21 24 56.9 | 4 37.8 | 0.037136 | 22 34 | 4 2 |
| 9 | 19 48 49.08 | 5 26.53 | 21 20 19.1 | 5 49.1 | 0.042903 | 22 35 | 4 2 |
| 10 | 19 54 15.61 | 5 32.20 | 21 14 30.0 | 7 1.5 | 0.048447 | 22 37 | 4 3 |
| 11 | 19 59 47.81 | +5 37.38 | 21 7 28.5 | + 8 14.8 | 0.053774 | 22 38 | 4 4 |
| 12 | 20 5 25.19 | 5 42.14 | −20 59 13.7 | 9 29.0 | 0.058892 | 22 40 | 4 5 |
| 13 | 20 11 7.33 | 5 46.52 | 20 49 44.7 | 10 44.0 | 0.063809 | 22 42 | 4 6 |
| 14 | 20 16 53.85 | 5 50.54 | 20 39 0.7 | 11 59.7 | 0.068530 | 22 43 | 4 7 |
| 15 | 20 22 44.39 | 5 54.24 | 20 27 1.0 | 13 15.9 | 0.073063 | 22 45 | 4 8 |
| 16 | 20 28 38.63 | +5 57.64 | 20 13 45.1 | +14 32.6 | 0.077413 | 22 47 | 4 10 |
| 17 | 20 34 36.27 | 6 0.79 | −19 59 12.5 | 15 49.7 | 0.081586 | 22 49 | 4 11 |
| 18 | 20 40 37.06 | 6 3.71 | 19 43 22.8 | 17 7.3 | 0.085587 | 22 51 | 4 13 |
| 19 | 20 46 40.77 | 6 6.42 | 19 26 15.5 | 18 25.1 | 0.089421 | 22 54 | 4 15 |
| 20 | 20 52 47.19 | 6 8.94 | 19 7 50.4 | 19 43.3 | 0.093092 | 22 56 | 4 17 |
| 21 | 20 58 56.13 | +6 11.30 | 18 48 7.1 | +21 1.6 | 0.096603 | 22 58 | 4 19 |
| 22 | 21 5 7.43 | 6 13.52 | −18 27 5.5 | 22 20.0 | 0.099959 | 23 0 | 4 21 |
| 23 | 21 11 20.95 | 6 15.62 | 18 4 45.5 | 23 38.7 | 0.103162 | 23 2 | 4 23 |
| 24 | 21 17 36.57 | 6 17.61 | 17 41 6.8 | 24 57.4 | 0.106215 | 23 5 | 4 26 |
| 25 | 21 23 54.18 | 6 19.52 | 17 16 9.4 | 26 16.2 | 0.109119 | 23 7 | 4 29 |
| 26 | 21 30 13.70 | +6 21.35 | 16 49 53.2 | +27 35.1 | 0.111877 | 23 10 | 4 31 |
| 27 | 21 36 35.05 | 6 23.13 | −16 22 18.1 | 28 53.9 | 0.114490 | 23 12 | 4 34 |
| 28 | 21 42 58.18 | 6 24.87 | 15 53 24.2 | 30 12.6 | 0.116957 | 23 14 | 4 37 |
| März 1 | 21 49 23.05 | 6 26.58 | 15 23 11.6 | 31 31.3 | 0.119279 | 23 17 | 4 40 |
| 2 | 21 55 49.63 | 6 28.28 | 14 51 40.3 | 32 49.9 | 0.121456 | 23 19 | 4 43 |
| 3 | 22 2 17.91 | +6 29.99 | 14 18 50.4 | +34 8.4 | 0.123486 | 23 22 | 4 46 |
| 4 | 22 8 47.90 | 6 31.72 | −13 44 42.0 | 35 26.6 | 0.125368 | 23 24 | 4 50 |
| 5 | 22 15 19.62 | 6 33.47 | 13 9 15.4 | 36 44.5 | 0.127098 | 23 27 | 4 53 |
| 6 | 22 21 53.09 | 6 35.25 | 12 32 30.9 | 38 2.2 | 0.128673 | 23 30 | 4 56 |
| 7 | 22 28 28.34 | 6 37.09 | 11 54 28.7 | 39 19.4 | 0.130090 | 23 32 | 5 0 |
| 8 | 22 35 5.43 | +6 38.99 | 11 15 9.3 | +40 36.3 | 0.131344 | 23 35 | 5 4 |
| 9 | 22 41 44.42 | 6 40.95 | −10 34 33.0 | 41 52.5 | 0.132429 | 23 38 | 5 7 |
| 10 | 22 48 25.37 | 6 42.98 | 9 52 40.5 | 43 8.0 | 0.133337 | 23 40 | 5 11 |
| 11 | 22 55 8.35 | 6 45.09 | 9 9 32.5 | 44 22.6 | 0.134062 | 23 43 | 5 15 |
| 12 | 23 1 53.44 | 6 47.28 | 8 25 9.9 | 45 36.3 | 0.134595 | 23 46 | 5 19 |
| 13 | 23 8 40.72 | +6 49.52 | 7 39 33.6 | +46 48.6 | 0.134924 | 23 49 | 5 23 |
| 14 | 23 15 30.24 | 6 51.84 | − 6 52 45.0 | 47 59.4 | 0.135039 | 23 52 | 5 28 |
| 15 | 23 22 22.08 | 6 54.22 | 6 4 45.6 | 49 8.4 | 0.134927 | 23 55 | 5 32 |
| 16 | 23 29 16.30 | 6 56.64 | 5 15 37.2 | 50 15.0 | 0.134574 | 23 58 | 5 36 |
| 17 | 23 36 12.94 | 6 59.07 | 4 25 22.2 | 51 19.0 | 0.133964 | 0 1 | 5 41 |
| 18 | 23 43 12.01 | | 3 34 3.2 | | 0.133080 | 0 4 | 5 45 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| März 17 | 23 36 12.94 | +6 59.07 | − 4 25 22.2 | +51 19.0 | 0.133964 | 0 1 | 5 41 |
| 18 | 23 43 12.01 | 7 1.48 | 3 34 3.2 | 52 19.8 | 0.133080 | 0 4 | 5 45 |
| 19 | 23 50 13.49 | 7 3.86 | 2 41 43.4 | 53 16.9 | 0.131903 | 0 7 | 5 50 |
| 20 | 23 57 17.35 | 7 6.14 | 1 48 26.5 | 54 9.4 | 0.130414 | 0 10 | 5 54 |
| 21 | 0 4 23.49 | +7 8.27 | − 0 54 17.1 | +54 56.6 | 0.128592 | 0 13 | 5 59 |
| 22 | 0 11 31.76 | 7 10.19 | + 0 0 39.5 | 55 37.9 | 0.126414 | 0 16 | 6 4 |
| 23 | 0 18 41.95 | 7 11.81 | 0 56 17.4 | 56 12.2 | 0.123856 | 0 19 | 6 9 |
| 24 | 0 25 53.76 | 7 13.06 | 1 52 29.6 | 56 38.5 | 0.120895 | 0 23 | 6 13 |
| 25 | 0 33 6.82 | 7 13.84 | 2 49 8.1 | 56 55.6 | 0.117507 | 0 26 | 6 18 |
| 26 | 0 40 20.66 | +7 14.03 | 3 46 3.7 | +57 2.8 | 0.113668 | 0 29 | 6 23 |
| 27 | 0 47 34.69 | 7 13.52 | + 4 43 6.5 | 56 59.0 | 0.109355 | 0 33 | 6 28 |
| 28 | 0 54 48.21 | 7 12.20 | 5 40 5.5 | 56 43.0 | 0.104548 | 0 36 | 6 33 |
| 29 | 1 2 0.41 | 7 9.94 | 6 36 48.5 | 56 14.3 | 0.099228 | 0 39 | 6 38 |
| 30 | 1 9 10.35 | 7 6.65 | 7 33 2.8 | 55 32.2 | 0.093380 | 0 42 | 6 43 |
| 31 | 1 16 17.00 | +7 2.22 | 8 28 35.0 | +54 36.2 | 0.086993 | 0 45 | 6 48 |
| April 1 | 1 23 19.22 | 6 56.56 | + 9 23 11.2 | 53 26.2 | 0.080062 | 0 49 | 6 53 |
| 2 | 1 30 15.78 | 6 49.60 | 10 16 37.4 | 52 2.4 | 0.072586 | 0 52 | 6 58 |
| 3 | 1 37 5.38 | 6 41.32 | 11 8 39.8 | 50 25.1 | 0.064571 | 0 54 | 7 3 |
| 4 | 1 43 46.70 | 6 31.69 | 11 59 4.9 | 48 35.3 | 0.056028 | 0 57 | 7 8 |
| 5 | 1 50 18.39 | +6 20.72 | 12 47 40.2 | +46 33.9 | 0.046974 | 1 0 | 7 13 |
| 6 | 1 56 39.11 | 6 8.43 | +13 34 14.1 | 44 21.9 | 0.037432 | 1 2 | 7 17 |
| 7 | 2 2 47.54 | 5 54.87 | 14 18 36.0 | 42 0.7 | 0.027429 | 1 4 | 7 22 |
| 8 | 2 8 42.41 | 5 40.11 | 15 0 36.7 | 39 31.4 | 0.016999 | 1 6 | 7 26 |
| 9 | 2 14 22.52 | 5 24.20 | 15 40 8.1 | 36 55.5 | 0.006177 | 1 8 | 7 30 |
| 10 | 2 19 46.72 | +5 7.23 | 16 17 3.6 | +34 14.0 | 9.995002 | 1 10 | 7 34 |
| 11 | 2 24 53.95 | 4 49.27 | +16 51 17.6 | 31 28.0 | 9.983515 | 1 11 | 7 37 |
| 12 | 2 29 43.22 | 4 30.42 | 17 22 45.6 | 28 38.7 | 9.971760 | 1 12 | 7 41 |
| 13 | 2 34 13.64 | 4 10.74 | 17 51 24.3 | 25 46.5 | 9.959782 | 1 12 | 7 44 |
| 14 | 2 38 24.38 | 3 50.33 | 18 17 10.8 | 22 52.3 | 9.947628 | 1 12 | 7 46 |
| 15 | 2 42 14.71 | +3 29.27 | 18 40 3.1 | +19 56.6 | 9.935345 | 1 12 | 7 49 |
| 16 | 2 45 43.98 | 3 7.63 | +18 59 59.7 | 16 59.7 | 9.922982 | 1 12 | 7 51 |
| 17 | 2 48 51.61 | 2 45.52 | 19 16 59.4 | 14 2.0 | 9.910589 | 1 11 | 7 53 |
| 18 | 2 51 37.13 | 2 23.05 | 19 31 1.4 | 11 3.9 | 9.898217 | 1 10 | 7 54 |
| 19 | 2 54 0.18 | 2 0.33 | 19 42 5.3 | 8 5.5 | 9.885921 | 1 8 | 7 56 |
| 20 | 2 56 0.51 | +1 37.50 | 19 50 10.8 | + 5 7.2 | 9.873756 | 1 6 | 7 57 |
| 21 | 2 57 38.01 | 1 14.68 | +19 55 18.0 | + 2 9.4 | 9.861780 | 1 4 | 7 57 |
| 22 | 2 58 52.69 | 0 52.06 | 19 57 27.4 | − 0 47.2 | 9.850053 | 1 1 | 7 57 |
| 23 | 2 59 44.75 | 0 29.83 | 19 56 40.2 | 3 42.2 | 9.838636 | 0 58 | 7 57 |
| 24 | 3 0 14.58 | +0 8.18 | 19 52 58.0 | 6 34.4 | 9.827593 | 0 55 | 7 57 |
| 25 | 3 0 22.76 | | 19 46 23.6 | | 9.816989 | 0 51 | 7 56 |

## Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|---|
| | | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| April | 24 | 3 0 14.58 | +0 8.18 | +19 52 58.0 | − 6 34.4 | 9.827593 | 0 55 | 7 57 |
| | 25 | 3 0 22.76 | −0 12.66 | 19 46 23.6 | 9 22.9 | 9.816989 | 0 51 | 7 56 |
| | 26 | 3 0 10.10 | 0 32.45 | 19 37 0.7 | 12 6.2 | 9.806889 | 0 47 | 7 55 |
| | 27 | 2 59 37.65 | 0 50.95 | 19 24 54.5 | 14 42.8 | 9.797360 | 0 42 | 7 54 |
| | 28 | 2 58 46.70 | −1 7.94 | 19 10 11.7 | −17 10.8 | 9.788467 | 0 38 | 7 52 |
| | 29 | 2 57 38.76 | 1 23.17 | +18 53 0.9 | 19 28.3 | 9.780273 | 0 33 | 7 50 |
| | 30 | 2 56 15.59 | 1 36.43 | 18 33 32.6 | 21 33.1 | 9.772837 | 0 27 | 7 48 |
| Mai | 1 | 2 54 39.16 | 1 47.51 | 18 11 59.5 | 23 23.3 | 9.766214 | 0 22 | 7 46 |
| | 2 | 2 52 51.65 | 1 56.27 | 17 48 36.2 | 24 56.8 | 9.760451 | 0 16 | 7 43 |
| | 3 | 2 50 55.38 | −2 2.59 | 17 23 39.4 | −26 11.7 | 9.755589 | 0 10 | 7 41 |
| | 4 | 2 48 52.79 | 2 6.42 | +16 57 27.7 | 27 6.6 | 9.751659 | 0 4 | 7 38 |
| | 5 | 2 46 46.37 | 2 7.73 | 16 30 21.1 | 27 40.4 | 9.748682 | 23 58 | 7 35 |
| | 6 | 2 44 38.64 | 2 6.58 | 16 2 40.7 | 27 52.3 | 9.746667 | 23 52 | 7 32 |
| | 7 | 2 42 32.06 | 2 3.07 | 15 34 48.4 | 27 42.6 | 9.745613 | 23 46 | 7 29 |
| | 8 | 2 40 28.99 | −1 57.33 | 15 7 5.8 | −27 11.5 | 9.745507 | 23 40 | 7 27 |
| | 9 | 2 38 31.66 | 1 49.56 | +14 39 54.3 | 26 20.1 | 9.746326 | 23 34 | 7 24 |
| | 10 | 2 36 42.10 | 1 39.96 | 14 13 34.2 | 25 9.8 | 9.748038 | 23 28 | 7 21 |
| | 11 | 2 35 2.14 | 1 28.75 | 13 48 24.4 | 23 42.5 | 9.750602 | 23 23 | 7 19 |
| | 12 | 2 33 33.39 | 1 16.19 | 13 24 41.9 | 22 0.2 | 9.753971 | 23 17 | 7 16 |
| | 13 | 2 32 17.20 | −1 2.48 | 13 2 41.7 | −20 5.3 | 9.758091 | 23 12 | 7 14 |
| | 14 | 2 31 14.72 | 0 47.88 | +12 42 36.4 | 17 59.8 | 9.762907 | 23 7 | 7 12 |
| | 15 | 2 30 26.84 | 0 32.61 | 12 24 36.6 | 15 46.2 | 9.768361 | 23 2 | 7 10 |
| | 16 | 2 29 54.23 | 0 16.83 | 12 8 50.4 | 13 26.8 | 9.774394 | 22 58 | 7 9 |
| | 17 | 2 29 37.40 | −0 0.75 | 11 55 23.6 | 11 3.4 | 9.780948 | 22 54 | 7 8 |
| | 18 | 2 29 36.65 | +0 15.50 | 11 44 20.2 | − 8 37.8 | 9.787966 | 22 50 | 7 7 |
| | 19 | 2 29 52.15 | 0 31.80 | +11 35 42.4 | 6 11.8 | 9.795395 | 22 46 | 7 6 |
| | 20 | 2 30 23.95 | 0 48.02 | 11 29 30.6 | 3 46.7 | 9.803184 | 22 42 | 7 5 |
| | 21 | 2 31 11.97 | 1 4.10 | 11 25 43.9 | − 1 23.6 | 9.811285 | 22 39 | 7 5 |
| | 22 | 2 32 16.07 | 1 19.97 | 11 24 20.3 | + 0 56.4 | 9.819654 | 22 36 | 7 5 |
| | 23 | 2 33 36.04 | +1 35.60 | 11 25 16.7 | + 3 12.6 | 9.828249 | 22 34 | 7 5 |
| | 24 | 2 35 11.64 | 1 50.93 | +11 28 29.3 | 5 24.3 | 9.837034 | 22 31 | 7 5 |
| | 25 | 2 37 2.57 | 2 5.96 | 11 33 53.6 | 7 31.0 | 9.845975 | 22 29 | 7 6 |
| | 26 | 2 39 8.53 | 2 20.69 | 11 41 24.6 | 9 32.5 | 9.855043 | 22 28 | 7 6 |
| | 27 | 2 41 29.22 | 2 35.13 | 11 50 57.1 | 11 28.5 | 9.864210 | 22 26 | 7 7 |
| | 28 | 2 44 4.35 | +2 49.28 | 12 2 25.6 | +13 18.7 | 9.873451 | 22 25 | 7 8 |
| | 29 | 2 46 53.63 | 3 3.16 | +12 15 44.3 | 15 3.0 | 9.882744 | 22 23 | 7 10 |
| | 30 | 2 49 56.79 | 3 16.83 | 12 30 47.3 | 16 41.4 | 9.892071 | 22 23 | 7 11 |
| | 31 | 2 53 13.62 | 3 30.30 | 12 47 28.7 | 18 13.9 | 9.901413 | 22 22 | 7 13 |
| Juni | 1 | 2 56 43.92 | 3 43.58 | 13 5 42.6 | 19 40.6 | 9.910754 | 22 21 | 7 14 |
| | 2 | 3 0 27.50 | | 13 25 23.2 | | 9.920080 | 22 21 | 7 16 |

## Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tagbogen |
|---|---|---|---|---|---|---|---|---|
| | | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Juni | 1 | 2 56 43.92 | +3 43.58 | +13 5 42.6 | +19 40.6 | 9.910754 | 22 21 | 7 14 |
| | 2 | 3 0 27.50 | 3 56.72 | 13 25 23.2 | 21 1.0 | 9.920080 | 22 21 | 7 16 |
| | 3 | 3 4 24.22 | 4 9.78 | 13 46 24.2 | 22 15.5 | 9.929377 | 22 21 | 7 18 |
| | 4 | 3 8 34.00 | 4 22.76 | 14 8 39.7 | 23 24.0 | 9.938633 | 22 21 | 7 21 |
| | 5 | 3 12 56.76 | +4 35.72 | 14 32 3.7 | +24 26.4 | 9.947835 | 22 22 | 7 23 |
| | 6 | 3 17 32.48 | 4 48.69 | +14 56 30.1 | 25 22.5 | 9.956971 | 22 23 | 7 25 |
| | 7 | 3 22 21.17 | 5 1.71 | 15 21 52.6 | 26 12.3 | 9.966031 | 22 23 | 7 28 |
| | 8 | 3 27 22.88 | 5 14.79 | 15 48 4.9 | 26 55.7 | 9.975002 | 22 24 | 7 31 |
| | 9 | 3 32 37.67 | 5 27.97 | 16 15 0.6 | 27 32.4 | 9.983873 | 22 26 | 7 33 |
| | 10 | 3 38 5.64 | +5 41.28 | 16 42 33.0 | +28 2.2 | 9.992632 | 22 27 | 7 36 |
| | 11 | 3 43 46.92 | 5 54.73 | +17 10 35.2 | 28 24.8 | 0.001266 | 22 29 | 7 39 |
| | 12 | 3 49 41.65 | 6 8.33 | 17 39 0.0 | 28 39.8 | 0.009762 | 22 31 | 7 42 |
| | 13 | 3 55 49.98 | 6 22.08 | 18 7 39.8 | 28 46.9 | 0.018105 | 22 33 | 7 45 |
| | 14 | 4 2 12.06 | 6 35.98 | 18 36 26.7 | 28 45.6 | 0.026279 | 22 36 | 7 48 |
| | 15 | 4 8 48.04 | +6 50.01 | 19 5 12.3 | +28 35.4 | 0.034268 | 22 38 | 7 52 |
| | 16 | 4 15 38.05 | 7 4.14 | +19 33 47.7 | 28 15.9 | 0.042055 | 22 41 | 7 55 |
| | 17 | 4 22 42.19 | 7 18.32 | 20 2 3.6 | 27 46.4 | 0.049620 | 22 44 | 7 58 |
| | 18 | 4 30 0.51 | 7 32.48 | 20 29 50.0 | 27 6.4 | 0.056943 | 22 48 | 8 1 |
| | 19 | 4 37 32.99 | 7 46.54 | 20 56 56.4 | 26 15.5 | 0.064001 | 22 51 | 8 4 |
| | 20 | 4 45 19.53 | +8 0.38 | 21 23 11.9 | +25 13.1 | 0.070772 | 22 55 | 8 7 |
| | 21 | 4 53 19.91 | 8 13.89 | +21 48 25.0 | 23 58.8 | 0.077232 | 22 59 | 8 10 |
| | 22 | 5 1 33.80 | 8 26.91 | 22 12 23.8 | 22 32.4 | 0.083357 | 23 4 | 8 13 |
| | 23 | 5 10 0.71 | 8 39.28 | 22 34 56.2 | 20 53.8 | 0.089122 | 23 8 | 8 16 |
| | 24 | 5 18 39.99 | 8 50.83 | 22 55 50.0 | 19 3.2 | 0.094502 | 23 13 | 8 19 |
| | 25 | 5 27 30.82 | +9 1.37 | 23 14 53.2 | +17 1.1 | 0.099475 | 23 18 | 8 21 |
| | 26 | 5 36 32.19 | 9 10.72 | +23 31 54.3 | 14 48.0 | 0.104020 | 23 23 | 8 23 |
| | 27 | 5 45 42.91 | 9 18.71 | 23 46 42.3 | 12 24.9 | 0.108117 | 23 28 | 8 25 |
| | 28 | 5 55 1.62 | 9 25.21 | 23 59 7.2 | 9 53.2 | 0.111752 | 23 33 | 8 27 |
| | 29 | 6 4 26.83 | 9 30.09 | 24 9 0.4 | 7 14.5 | 0.114913 | 23 39 | 8 28 |
| | 30 | 6 13 56.92 | +9 33.29 | 24 16 14.9 | + 4 30.5 | 0.117592 | 23 44 | 8 29 |
| Juli | 1 | 6 23 30.21 | 9 34.76 | +24 20 45.4 | + 1 43.0 | 0.119787 | 23 50 | 8 30 |
| | 2 | 6 33 4.97 | 9 34.53 | 24 22 28.4 | − 1 6.0 | 0.121500 | 23 56 | 8 30 |
| | 3 | 6 42 39.50 | 9 32.64 | 24 21 22.4 | 3 54.5 | 0.122737 | 0 1 | 8 30 |
| | 4 | 6 52 12.14 | 9 29.18 | 24 17 27.9 | 6 40.9 | 0.123509 | 0 7 | 8 29 |
| | 5 | 7 1 41.32 | +9 24.29 | 24 10 47.0 | − 9 23.5 | 0.123832 | 0 12 | 8 28 |
| | 6 | 7 11 5.61 | 9 18.10 | +24 1 23.5 | 12 0.9 | 0.123722 | 0 18 | 8 27 |
| | 7 | 7 20 23.71 | 9 10.78 | 23 49 22.6 | 14 31.9 | 0.123200 | 0 23 | 8 26 |
| | 8 | 7 29 34.49 | 9 2.50 | 23 34 50.7 | 16 55.8 | 0.122288 | 0 28 | 8 24 |
| | 9 | 7 38 36.99 | 8 53.41 | 23 17 54.9 | 19 11.8 | 0.121007 | 0 34 | 8 21 |
| | 10 | 7 47 30.40 | | 22 58 43.1 | | 0.119381 | 0 38 | 8 19 |

## Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|---|
| | | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Juli | 9 | 7 38 36.99 | +8 53.41 | +23 17 54.9 | −19 11.8 | 0.121007 | 0 34 | 8 21 |
| | 10 | 7 47 30.40 | 8 43.67 | 22 58 43.1 | 21 19.5 | 0.119381 | 0 38 | 8 19 |
| | 11 | 7 56 14.07 | 8 33.43 | 22 37 23.6 | 23 18.6 | 0.117432 | 0 43 | 8 16 |
| | 12 | 8 4 47.50 | 8 22.83 | 22 14 5.0 | 25 9.2 | 0.115183 | 0 48 | 8 13 |
| | 13 | 8 13 10.33 | +8 11.98 | 21 48 55.8 | −26 51.3 | 0.112655 | 0 52 | 8 10 |
| | 14 | 8 21 22.31 | 8 0.98 | +21 22 4.5 | 28 24.9 | 0.109867 | 0 57 | 8 7 |
| | 15 | 8 29 23.29 | 7 49.90 | 20 53 39.6 | 29 50.5 | 0.106839 | 1 1 | 8 4 |
| | 16 | 8 37 13.19 | 7 38.83 | 20 23 49.1 | 31 8.3 | 0.103587 | 1 5 | 8 0 |
| | 17 | 8 44 52.02 | 7 27.82 | 19 52 40.8 | 32 18.6 | 0.100126 | 1 8 | 7 57 |
| | 18 | 8 52 19.84 | +7 16.91 | 19 20 22.2 | −33 21.8 | 0.096471 | 1 12 | 7 53 |
| | 19 | 8 59 36.75 | 7 6.15 | +18 47 0.4 | 34 18.1 | 0.092635 | 1 15 | 7 50 |
| | 20 | 9 6 42.90 | 6 55.54 | 18 12 42.3 | 35 8.1 | 0.088628 | 1 18 | 7 46 |
| | 21 | 9 13 38.44 | 6 45.11 | 17 37 34.2 | 35 51.9 | 0.084460 | 1 21 | 7 42 |
| | 22 | 9 20 23.55 | 6 34.86 | 17 1 42.3 | 36 29.9 | 0.080141 | 1 24 | 7 38 |
| | 23 | 9 26 58.41 | +6 24.79 | 16 25 12.4 | −37 2.4 | 0.075677 | 1 27 | 7 35 |
| | 24 | 9 33 23.20 | 6 14.91 | +15 48 10.0 | 37 29.8 | 0.071074 | 1 29 | 7 31 |
| | 25 | 9 39 38.11 | 6 5.21 | 15 10 40.2 | 37 52.1 | 0.066338 | 1 31 | 7 27 |
| | 26 | 9 45 43.32 | 5 55.67 | 14 32 48.1 | 38 9.6 | 0.061474 | 1 34 | 7 23 |
| | 27 | 9 51 38.99 | 5 46.29 | 13 54 38.5 | 38 22.6 | 0.056485 | 1 36 | 7 19 |
| | 28 | 9 57 25.28 | +5 37.04 | 13 16 15.9 | −38 31.1 | 0.051374 | 1 37 | 7 15 |
| | 29 | 10 3 2.32 | 5 27.90 | +12 37 44.8 | 38 35.4 | 0.046143 | 1 39 | 7 11 |
| | 30 | 10 8 30.22 | 5 18.87 | 11 59 9.4 | 38 35.6 | 0.040794 | 1 41 | 7 8 |
| | 31 | 10 13 49.09 | 5 9.91 | 11 20 33.8 | 38 31.7 | 0.035329 | 1 42 | 7 4 |
| Aug. | 1 | 10 18 59.00 | 5 1.01 | 10 42 2.1 | 38 23.9 | 0.029747 | 1 43 | 7 1 |
| | 2 | 10 24 0.01 | +4 52.13 | 10 3 38.2 | −38 12.1 | 0.024049 | 1 44 | 6 57 |
| | 3 | 10 28 52.14 | 4 43.26 | + 9 25 26.1 | 37 56.3 | 0.018236 | 1 45 | 6 54 |
| | 4 | 10 33 35.40 | 4 34.35 | 8 47 29.8 | 37 36.7 | 0.012306 | 1 46 | 6 50 |
| | 5 | 10 38 9.75 | 4 25.38 | 8 9 53.1 | 37 13.1 | 0.006260 | 1 47 | 6 47 |
| | 6 | 10 42 35.13 | 4 16.31 | 7 32 40.0 | 36 45.5 | 0.000097 | 1 47 | 6 43 |
| | 7 | 10 46 51.44 | +4 7.12 | 6 55 54.5 | 36 13.8 | 9.993816 | 1 47 | 6 40 |
| | 8 | 10 50 58.56 | 3 57.76 | + 6 19 40.7 | 35 37.8 | 9.987416 | 1 48 | 6 37 |
| | 9 | 10 54 56.32 | 3 48.20 | 5 44 2.9 | 34 57.4 | 9.980898 | 1 48 | 6 34 |
| | 10 | 10 58 44.52 | 3 38.39 | 5 9 5.5 | 34 12.5 | 9.974261 | 1 47 | 6 31 |
| | 11 | 11 2 22.91 | 3 28.30 | 4 34 53.0 | 33 22.7 | 9.967505 | 1 47 | 6 28 |
| | 12 | 11 5 51.21 | +3 17.87 | 4 1 30.3 | −32 27.8 | 9.960631 | 1 47 | 6 25 |
| | 13 | 11 9 9.08 | 3 7.06 | + 3 29 2.5 | 31 27.6 | 9.953641 | 1 46 | 6 22 |
| | 14 | 11 12 16.14 | 2 55.83 | 2 57 34.9 | 30 21.7 | 9.946537 | 1 45 | 6 19 |
| | 15 | 11 15 11.97 | 2 44.12 | 2 27 13.2 | 29 9.7 | 9.939322 | 1 44 | 6 16 |
| | 16 | 11 17 56.09 | 2 31.88 | 1 58 3.5 | 27 51.1 | 9.932000 | 1 43 | 6 14 |
| | 17 | 11 20 27.97 | | 1 30 12.4 | | 9.924579 | 1 42 | 6 11 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | AR. h m s | Diff. m s | Dekl. ° ′ ″ | Diff. ′ ″ | Log. Δ | Östl. Stunden-Winkel h m | Halber Tag-bogen h m |
|---|---|---|---|---|---|---|---|
| Aug. 16 | 11 17 56.09 | +2 31.88 | +1 58 3.5 | −27 51.1 | 9.932000 | 1 43 | 6 14 |
| 17 | 11 20 27.97 | 2 19.07 | 1 30 12.4 | 26 25.6 | 9.924579 | 1 42 | 6 11 |
| 18 | 11 22 47.04 | 2 5.62 | 1 3 46.8 | 24 52.6 | 9.917067 | 1 40 | 6 9 |
| 19 | 11 24 52.66 | 1 51.50 | 0 38 54.2 | 23 11.6 | 9.909474 | 1 38 | 6 7 |
| 20 | 11 26 44.16 | +1 36.67 | +0 15 42.6 | −21 21.8 | 9.901815 | 1 36 | 6 5 |
| 21 | 11 28 20.83 | 1 21.07 | −0 5 39.2 | 19 22.9 | 9.894106 | 1 34 | 6 3 |
| 22 | 11 29 41.90 | 1 4.69 | 0 25 2.1 | 17 14.2 | 9.886369 | 1 31 | 6 1 |
| 23 | 11 30 46.59 | 0 47.53 | 0 42 16.3 | 14 55.2 | 9.878629 | 1 28 | 6 0 |
| 24 | 11 31 34.12 | 0 29.57 | 0 57 11.5 | 12 25.4 | 9.870918 | 1 25 | 5 59 |
| 25 | 11 32 3.69 | +0 10.85 | 1 9 36.9 | − 9 44.4 | 9.863273 | 1 22 | 5 58 |
| 26 | 11 32 14.54 | −0 8.55 | −1 19 21.3 | 6 52.0 | 9.855737 | 1 18 | 5 57 |
| 27 | 11 32 5.99 | 0 28.53 | 1 26 13.3 | 3 48.3 | 9.848363 | 1 14 | 5 56 |
| 28 | 11 31 37.46 | 0 48.96 | 1 30 1.6 | − 0 33.9 | 9.841212 | 1 9 | 5 56 |
| 29 | 11 30 48.50 | 1 9.61 | 1 30 35.5 | + 2 50.6 | 9.834353 | 1 5 | 5 56 |
| 30 | 11 29 38.89 | −1 30.23 | 1 27 44.9 | + 6 23.8 | 9.827863 | 1 0 | 5 56 |
| 31 | 11 28 8.66 | 1 50.48 | −1 21 21.1 | 10 3.3 | 9.821829 | 0 54 | 5 57 |
| Sept. 1 | 11 26 18.18 | 2 9.97 | 1 11 17.8 | 13 46.5 | 9.816348 | 0 48 | 5 58 |
| 2 | 11 24 8.21 | 2 28.22 | 0 57 31.3 | 17 29.7 | 9.811522 | 0 42 | 5 59 |
| 3 | 11 21 39.99 | 2 44.72 | 0 40 1.6 | 21 8.4 | 9.807459 | 0 36 | 6 0 |
| 4 | 11 18 55.27 | −2 58.90 | −0 18 53.2 | +24 37.5 | 9.804270 | 0 29 | 6 2 |
| 5 | 11 15 56.37 | 3 10.19 | +0 5 44.3 | 27 51.0 | 9.802065 | 0 22 | 6 4 |
| 6 | 11 12 46.18 | 3 18.03 | 0 33 35.3 | 30 42.8 | 9.800949 | 0 15 | 6 7 |
| 7 | 11 9 28.15 | 3 21.90 | 1 4 18.1 | 33 6.8 | 9.801014 | 0 8 | 6 9 |
| 8 | 11 6 6.25 | 3 21.41 | 1 37 24.9 | 34 57.2 | 9.802336 | 0 1 | 6 12 |
| 9 | 11 2 44.84 | −3 16.25 | 2 12 22.1 | +36 9.6 | 9.804973 | 23 53 | 6 15 |
| 10 | 10 59 28.59 | 3 6.27 | +2 48 31.7 | 36 40.2 | 9.808955 | 23 46 | 6 18 |
| 11 | 10 56 22.32 | 2 51.55 | 3 25 11.9 | 36 27.2 | 9.814284 | 23 39 | 6 21 |
| 12 | 10 53 30.77 | 2 32.28 | 4 1 39.1 | 35 30.5 | 9.820933 | 23 32 | 6 25 |
| 13 | 10 50 58.49 | 2 8.83 | 4 37 9.6 | 33 51.4 | 9.828844 | 23 26 | 6 28 |
| 14 | 10 48 49.66 | −1 41.74 | 5 11 1.0 | +31 32.9 | 9.837932 | 23 20 | 6 31 |
| 15 | 10 47 7.92 | 1 11.61 | +5 42 33.9 | 28 39.2 | 9.848089 | 23 14 | 6 34 |
| 16 | 10 45 56.31 | 0 39.14 | 6 11 13.1 | 25 15.3 | 9.859189 | 23 9 | 6 36 |
| 17 | 10 45 17.17 | −0 5.08 | 6 36 28.4 | 21 26.3 | 9.871089 | 23 4 | 6 38 |
| 18 | 10 45 12.09 | +0 29.87 | 6 57 54.7 | 17 17.9 | 9.883639 | 23 0 | 6 40 |
| 19 | 10 45 41.96 | +1 5.02 | 7 15 12.6 | +12 55.6 | 9.896687 | 22 57 | 6 42 |
| 20 | 10 46 46.98 | 1 39.71 | +7 28 8.2 | 8 24.6 | 9.910083 | 22 54 | 6 43 |
| 21 | 10 48 26.69 | 2 13.39 | 7 36 32.8 | + 3 49.7 | 9.923681 | 22 52 | 6 44 |
| 22 | 10 50 40.08 | 2 45.55 | 7 40 22.5 | − 0 44.6 | 9.937343 | 22 50 | 6 44 |
| 23 | 10 53 25.63 | 3 15.79 | 7 39 37.9 | 5 14.4 | 9.950942 | 22 49 | 6 44 |
| 24 | 10 56 41.42 | | 7 34 23.5 | | 9.964364 | 22 48 | 6 44 |

## Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ' " | ' " | | h m | h m |
| Sept. 23 | 10 53 25.63 | +3 15.79 | + 7 39 37.9 | − 5 14.4 | 9.950942 | 22 49 | 6 44 |
| 24 | 10 56 41.42 | 3 43.81 | 7 34 23.5 | 9 36.2 | 9.964364 | 22 48 | 6 44 |
| 25 | 11 0 25.23 | 4 9.39 | 7 24 47.3 | 13 47.0 | 9.977510 | 22 48 | 6 43 |
| 26 | 11 4 34.62 | 4 32.40 | 7 11 0.3 | 17 44.5 | 9.990296 | 22 48 | 6 41 |
| 27 | 11 9 7.02 | +4 52.79 | 6 53 15.8 | 21 26.5 | 0.002651 | 22 49 | 6 40 |
| 28 | 11 13 59.81 | 5 10.59 | + 6 31 49.3 | 24 51.7 | 0.014519 | 22 50 | 6 38 |
| 29 | 11 19 10.40 | 5 25.87 | 6 6 57.6 | 27 59.2 | 0.025860 | 22 51 | 6 36 |
| 30 | 11 24 36.27 | 5 38.79 | 5 38 58.4 | 30 48.4 | 0.036644 | 22 52 | 6 33 |
| Okt. 1 | 11 30 15.06 | 5 49.53 | 5 8 10.0 | 33 19.3 | 0.046854 | 22 54 | 6 31 |
| 2 | 11 36 4.59 | +5 58.29 | 4 34 50.7 | −35 32.4 | 0.056483 | 22 56 | 6 28 |
| 3 | 11 42 2.88 | 6 5.27 | + 3 59 18.3 | 37 28.4 | 0.065533 | 22 58 | 6 24 |
| 4 | 11 48 8.15 | 6 10.70 | 3 21 49.9 | 39 8.1 | 0.074012 | 23 0 | 6 21 |
| 5 | 11 54 18.85 | 6 14.79 | 2 42 41.8 | 40 32.4 | 0.081934 | 23 2 | 6 18 |
| 6 | 12 0 33.64 | 6 17.75 | 2 2 9.4 | 41 42.6 | 0.089317 | 23 5 | 6 14 |
| 7 | 12 6 51.39 | +6 19.76 | 1 20 26.8 | −42 39.9 | 0.096182 | 23 7 | 6 11 |
| 8 | 12 13 11.15 | 6 20.99 | + 0 37 46.9 | 43 25.4 | 0.102552 | 23 9 | 6 7 |
| 9 | 12 19 32.14 | 6 21.59 | − 0 5 38.5 | 44 0.2 | 0.108451 | 23 12 | 6 3 |
| 10 | 12 25 53.73 | 6 21.68 | 0 49 38.7 | 44 25.6 | 0.113902 | 23 14 | 5 59 |
| 11 | 12 32 15.41 | 6 21.39 | 1 34 4.3 | 44 42.4 | 0.118930 | 23 17 | 5 56 |
| 12 | 12 38 36.80 | +6 20.80 | 2 18 46.7 | −44 51.6 | 0.123558 | 23 19 | 5 52 |
| 13 | 12 44 57.60 | 6 20.00 | − 3 3 38.3 | 44 54.1 | 0.127808 | 23 21 | 5 48 |
| 14 | 12 51 17.60 | 6 19.06 | 3 48 32.4 | 44 50.5 | 0.131701 | 23 24 | 5 44 |
| 15 | 12 57 36.66 | 6 18.04 | 4 33 22.9 | 44 41.6 | 0.135257 | 23 26 | 5 40 |
| 16 | 13 3 54.70 | 6 16.98 | 5 18 4.5 | 44 28.1 | 0.138495 | 23 29 | 5 36 |
| 17 | 13 10 11.68 | +6 15.91 | 6 2 32.6 | −44 10.3 | 0.141433 | 23 31 | 5 32 |
| 18 | 13 16 27.59 | 6 14.88 | − 6 46 42.9 | 43 48.7 | 0.144085 | 23 33 | 5 28 |
| 19 | 13 22 42.47 | 6 13.90 | 7 30 31.6 | 43 23.9 | 0.146467 | 23 35 | 5 24 |
| 20 | 13 28 56.37 | 6 13.00 | 8 13 55.5 | 42 56.0 | 0.148592 | 23 38 | 5 20 |
| 21 | 13 35 9.37 | 6 12.18 | 8 56 51.5 | 42 25.4 | 0.150472 | 23 40 | 5 16 |
| 22 | 13 41 21.55 | +6 11.46 | 9 39 16.9 | −41 52.4 | 0.152119 | 23 42 | 5 13 |
| 23 | 13 47 33.01 | 6 10.85 | −10 21 9.3 | 41 17.2 | 0.153542 | 23 45 | 5 9 |
| 24 | 13 53 43.86 | 6 10.36 | 11 2 26.5 | 40 40.0 | 0.154750 | 23 47 | 5 5 |
| 25 | 13 59 54.22 | 6 9.99 | 11 43 6.5 | 40 0.8 | 0.155752 | 23 49 | 5 1 |
| 26 | 14 6 4.21 | 6 9.73 | 12 23 7.3 | 39 20.0 | 0.156554 | 23 51 | 4 57 |
| 27 | 14 12 13.94 | +6 9.59 | 13 2 27.3 | −38 37.5 | 0.157163 | 23 53 | 4 54 |
| 28 | 14 18 23.53 | 6 9.57 | −13 41 4.8 | 37 53.5 | 0.157585 | 23 56 | 4 50 |
| 29 | 14 24 33.10 | 6 9.66 | 14 18 58.3 | 37 8.0 | 0.157824 | 23 58 | 4 46 |
| 30 | 14 30 42.76 | 6 9.86 | 14 56 6.3 | 36 21.2 | 0.157884 | 0 0 | 4 43 |
| 31 | 14 36 52.62 | 6 10.17 | 15 32 27.5 | 35 33.0 | 0.157769 | 0 2 | 4 39 |
| Nov. 1 | 14 43 2.79 | | 16 8 0.5 | | 0.157481 | 0 5 | 4 35 |

## Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|---|
| | | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Okt. | 31 | 14 36 52.62 | +6 10.17 | −15 32 27.5 | −35 33.0 | 0.157769 | 0 2 | 4 39 |
| Nov. | 1 | 14 43 2.79 | 6 10.58 | 16 8 0.5 | 34 43.5 | 0.157481 | 0 5 | 4 35 |
| | 2 | 14 49 13.37 | 6 11.09 | 16 42 44.0 | 33 52.7 | 0.157023 | 0 7 | 4 32 |
| | 3 | 14 55 24.46 | 6 11.68 | 17 16 36.7 | 33 0.6 | 0.156396 | 0 9 | 4 28 |
| | 4 | 15 1 36.14 | +6 12.35 | 17 49 37.3 | −32 7.3 | 0.155601 | 0 11 | 4 25 |
| | 5 | 15 7 48.49 | 6 13.09 | −18 21 44.6 | 31 12.7 | 0.154638 | 0 14 | 4 22 |
| | 6 | 15 14 1.58 | 6 13.89 | 18 52 57.3 | 30 16.8 | 0.153508 | 0 16 | 4 18 |
| | 7 | 15 20 15.47 | 6 14.74 | 19 23 14.1 | 29 19.6 | 0.152210 | 0 18 | 4 15 |
| | 8 | 15 26 30.21 | 6 15.63 | 19 52 33.7 | 28 21.2 | 0.150743 | 0 20 | 4 12 |
| | 9 | 15 32 45.84 | +6 16.53 | 20 20 54.9 | −27 21.5 | 0.149104 | 0 23 | 4 9 |
| | 10 | 15 39 2.37 | 6 17.45 | −20 48 16.4 | 26 20.4 | 0.147292 | 0 25 | 4 6 |
| | 11 | 15 45 19.82 | 6 18.36 | 21 14 36.8 | 25 17.9 | 0.145303 | 0 27 | 4 3 |
| | 12 | 15 51 38.18 | 6 19.25 | 21 39 54.7 | 24 14.1 | 0.143135 | 0 30 | 4 0 |
| | 13 | 15 57 57.43 | 6 20.08 | 22 4 8.8 | 23 8.9 | 0.140783 | 0 32 | 3 57 |
| | 14 | 16 4 17.51 | +6 20.84 | 22 27 17.7 | −22 2.3 | 0.138243 | 0 35 | 3 54 |
| | 15 | 16 10 38.35 | 6 21.52 | −22 49 20.0 | 20 54.2 | 0.135510 | 0 37 | 3 52 |
| | 16 | 16 16 59.87 | 6 22.08 | 23 10 14.2 | 19 44.6 | 0.132578 | 0 39 | 3 49 |
| | 17 | 16 23 21.95 | 6 22.49 | 23 29 58.8 | 18 33.5 | 0.129440 | 0 42 | 3 47 |
| | 18 | 16 29 44.44 | 6 22.71 | 23 48 32.3 | 17 21.0 | 0.126090 | 0 44 | 3 44 |
| | 19 | 16 36 7.15 | +6 22.72 | 24 5 53.3 | −16 7.0 | 0.122520 | 0 47 | 3 42 |
| | 20 | 16 42 29.87 | 6 22.48 | −24 22 0.3 | 14 51.6 | 0.118722 | 0 49 | 3 40 |
| | 21 | 16 48 52.35 | 6 21.94 | 24 36 51.9 | 13 34.6 | 0.114687 | 0 52 | 3 38 |
| | 22 | 16 55 14.29 | 6 21.05 | 24 50 26.5 | 12 16.3 | 0.110405 | 0 54 | 3 37 |
| | 23 | 17 1 35.34 | 6 19.77 | 25 2 42.8 | 10 56.7 | 0.105865 | 0 56 | 3 35 |
| | 24 | 17 7 55.11 | +6 18.03 | 25 13 39.5 | −9 35.7 | 0.101056 | 0 59 | 3 34 |
| | 25 | 17 14 13.14 | 6 15.76 | −25 23 15.2 | 8 13.6 | 0.095967 | 1 1 | 3 32 |
| | 26 | 17 20 28.90 | 6 12.88 | 25 31 28.8 | 6 50.3 | 0.090585 | 1 3 | 3 31 |
| | 27 | 17 26 41.78 | 6 9.32 | 25 38 19.1 | 5 26.0 | 0.084896 | 1 6 | 3 30 |
| | 28 | 17 32 51.10 | 6 4.98 | 25 43 45.1 | 4 1.0 | 0.078885 | 1 8 | 3 30 |
| | 29 | 17 38 56.08 | +5 59.75 | 25 47 46.1 | −2 35.4 | 0.072538 | 1 10 | 3 29 |
| | 30 | 17 44 55.83 | 5 53.49 | −25 50 21.5 | −1 9.4 | 0.065840 | 1 12 | 3 29 |
| Dez. | 1 | 17 50 49.32 | 5 46.08 | 25 51 30.9 | +0 16.6 | 0.058774 | 1 14 | 3 28 |
| | 2 | 17 56 35.40 | 5 37.37 | 25 51 14.3 | 1 42.4 | 0.051325 | 1 16 | 3 29 |
| | 3 | 18 2 12.77 | 5 27.19 | 25 49 31.9 | 3 7.5 | 0.043478 | 1 17 | 3 29 |
| | 4 | 18 7 39.96 | +5 15.33 | 25 46 24.4 | +4 31.4 | 0.035218 | 1 19 | 3 29 |
| | 5 | 18 12 55.29 | 5 1.58 | −25 41 53.0 | 5 53.8 | 0.026531 | 1 20 | 3 30 |
| | 6 | 18 17 56.87 | 4 45.72 | 25 35 59.2 | 7 13.9 | 0.017407 | 1 21 | 3 31 |
| | 7 | 18 22 42.59 | 4 27.50 | 25 28 45.3 | 8 31.2 | 0.007838 | 1 22 | 3 32 |
| | 8 | 18 27 10.09 | 4 6.63 | 25 20 14.1 | 9 44.9 | 9.997821 | 1 23 | 3 33 |
| | 9 | 18 31 16.72 | | 25 10 29.2 | | 9.987359 | 1 23 | 3 34 |

## Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Dez. 8 | 18 27 10.09 | +4 6.63 | −25 20 14.1 | +9 44.9 | 9.997821 | 1 23 | 3 33 |
| 9 | 18 31 16.72 | 3 42.86 | 25 10 29.2 | 10 54.3 | 9.987359 | 1 23 | 3 34 |
| 10 | 18 34 59.58 | 3 15.92 | 24 59 34.9 | 11 58.7 | 9.976464 | 1 23 | 3 35 |
| 11 | 18 38 15.50 | 2 45.57 | 24 47 36.2 | 12 57.5 | 9.965161 | 1 22 | 3 37 |
| 12 | 18 41 1.07 | +2 11.62 | 24 34 38.7 | +13 49.9 | 9.953488 | 1 21 | 3 39 |
| 13 | 18 43 12.69 | 1 33.95 | −24 20 48.8 | 14 35.3 | 9.941502 | 1 19 | 3 40 |
| 14 | 18 44 46.64 | 0 52.63 | 24 6 13.5 | 15 13.4 | 9.929282 | 1 17 | 3 42 |
| 15 | 18 45 39.27 | +0 7.91 | 23 51 0.1 | 15 44.2 | 9.916934 | 1 14 | 3 44 |
| 16 | 18 45 47.18 | −0 39.71 | 23 35 15.9 | 16 7.6 | 9.904594 | 1 10 | 3 46 |
| 17 | 18 45 7.47 | −1 29.38 | 23 19 8.3 | +16 24.0 | 9.892431 | 1 5 | 3 48 |
| 18 | 18 43 38.09 | 2 19.87 | −23 2 44.3 | 16 33.6 | 9.880649 | 1 0 | 3 50 |
| 19 | 18 41 18.22 | 3 9.52 | 22 46 10.7 | 16 36.5 | 9.869483 | 0 54 | 3 52 |
| 20 | 18 38 8.70 | 3 56.33 | 22 29 34.2 | 16 32.7 | 9.859191 | 0 47 | 3 54 |
| 21 | 18 34 12.37 | 4 38.05 | 22 13 1.5 | 16 21.3 | 9.850044 | 0 39 | 3 56 |
| 22 | 18 29 34.32 | −5 12.42 | 21 56 40.2 | +16 0.4 | 9.842310 | 0 30 | 3 58 |
| 23 | 18 24 21.90 | 5 37.36 | −21 40 39.8 | 15 27.9 | 9.836231 | 0 21 | 4 0 |
| 24 | 18 18 44.54 | 5 51.39 | 21 25 11.9 | 14 41.1 | 9.832000 | 0 11 | 4 2 |
| 25 | 18 12 53.15 | 5 53.76 | 21 10 30.8 | 13 38.0 | 9.829743 | 0 2 | 4 3 |
| 26 | 18 6 59.39 | 5 44.58 | 20 56 52.8 | 12 17.3 | 9.829507 | 23 52 | 4 5 |
| 27 | 18 1 14.81 | −5 24.84 | 20 44 35.5 | +10 39.5 | 9.831253 | 23 42 | 4 6 |
| 28 | 17 55 49.97 | 4 56.19 | −20 33 56.0 | 8 47.2 | 9.834862 | 23 33 | 4 7 |
| 29 | 17 50 53.78 | 4 20.64 | 20 25 8.8 | 6 43.8 | 9.840152 | 23 24 | 4 8 |
| 30 | 17 46 33.14 | 3 40.36 | 20 18 25.0 | 4 34.1 | 9.846900 | 23 15 | 4 9 |
| 31 | 17 42 52.78 | 2 57.36 | 20 13 50.9 | 2 23.2 | 9.854857 | 23 8 | 4 10 |
| 32 | 17 39 55.42 | −2 13.42 | 20 11 27.7 | +0 15.8 | 9.863773 | 23 1 | 4 10 |
| 33 | 17 37 42.00 | | −20 11 11.9 | | 9.873410 | 22 55 | 4 10 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ' " | ' " | | h m | h m |
| Jan. 0 | 19 15 40.54 | +5 26.39 | −23 19 5.5 | + 8 16.5 | 0.226926 | 0 40 | 3 48 |
| 1 | 19 21 6.93 | 5 25.65 | 23 10 49.0 | 8 59.2 | 0.226557 | 0 41 | 3 49 |
| 2 | 19 26 32.58 | 5 24.86 | 23 1 49.8 | 9 41.5 | 0.226178 | 0 43 | 3 50 |
| 3 | 19 31 57.44 | 5 24.02 | 22 52 8.3 | 10 23.4 | 0.225788 | 0 44 | 3 51 |
| 4 | 19 37 21.46 | +5 23.11 | 22 41 44.9 | +11 4.9 | 0.225388 | 0 46 | 3 53 |
| 5 | 19 42 44.57 | 5 22.17 | −22 30 40.0 | 11 45.8 | 0.224977 | 0 47 | 3 54 |
| 6 | 19 48 6.74 | 5 21.18 | 22 18 54.2 | 12 26.1 | 0.224555 | 0 48 | 3 55 |
| 7 | 19 53 27.92 | 5 20.15 | 22 6 28.1 | 13 6.0 | 0.224123 | 0 50 | 3 57 |
| 8 | 19 58 48.07 | 5 19.08 | 21 53 22.1 | 13 45.4 | 0.223681 | 0 51 | 3 58 |
| 9 | 20 4 7.15 | +5 17.97 | 21 39 36.7 | +14 24.2 | 0.223228 | 0 53 | 4 0 |
| 10 | 20 9 25.12 | 5 16.83 | −21 25 12.5 | 15 2.5 | 0.222765 | 0 54 | 4 2 |
| 11 | 20 14 41.95 | 5 15.67 | 21 10 10.0 | 15 40.1 | 0.222291 | 0 55 | 4 3 |
| 12 | 20 19 57.62 | 5 14.48 | 20 54 29.9 | 16 17.0 | 0.221807 | 0 57 | 4 5 |
| 13 | 20 25 12.10 | 5 13.27 | 20 38 12.9 | 16 53.2 | 0.221313 | 0 58 | 4 7 |
| 14 | 20 30 25.37 | +5 12.03 | 20 21 19.7 | +17 28.9 | 0.220809 | 0 59 | 4 9 |
| 15 | 20 35 37.40 | 5 10.79 | −20 3 50.8 | 18 3.9 | 0.220295 | 1 0 | 4 11 |
| 16 | 20 40 48.19 | 5 9.52 | 19 45 46.9 | 18 38.3 | 0.219770 | 1 2 | 4 13 |
| 17 | 20 45 57.71 | 5 8.25 | 19 27 8.6 | 19 11.9 | 0.219234 | 1 3 | 4 15 |
| 18 | 20 51 5.96 | 5 6.97 | 19 7 56.7 | 19 44.8 | 0.218688 | 1 4 | 4 17 |
| 19 | 20 56 12.93 | +5 5.69 | 18 48 11.9 | +20 17.0 | 0.218132 | 1 5 | 4 19 |
| 20 | 21 1 18.62 | 5 4.40 | −18 27 54.9 | 20 48.5 | 0.217565 | 1 6 | 4 21 |
| 21 | 21 6 23.02 | 5 3.11 | 18 7 6.4 | 21 19.2 | 0.216987 | 1 8 | 4 23 |
| 22 | 21 11 26.13 | 5 1.81 | 17 45 47.2 | 21 49.3 | 0.216399 | 1 9 | 4 25 |
| 23 | 21 16 27.94 | 5 0.52 | 17 23 57.9 | 22 18.6 | 0.215799 | 1 10 | 4 28 |
| 24 | 21 21 28.46 | +4 59.24 | 17 1 39.3 | +22 47.0 | 0.215188 | 1 11 | 4 30 |
| 25 | 21 26 27.70 | 4 57.96 | −16 38 52.3 | 23 14.8 | 0.214566 | 1 12 | 4 32 |
| 26 | 21 31 25.66 | 4 56.68 | 16 15 37.5 | 23 41.7 | 0.213932 | 1 13 | 4 35 |
| 27 | 21 36 22.34 | 4 55.43 | 15 51 55.8 | 24 7.8 | 0.213287 | 1 14 | 4 37 |
| 28 | 21 41 17.77 | 4 54.18 | 15 27 48.0 | 24 33.3 | 0.212630 | 1 15 | 4 40 |
| 29 | 21 46 11.95 | +4 52.94 | 15 3 14.7 | +24 57.9 | 0.211962 | 1 16 | 4 42 |
| 30 | 21 51 4.89 | 4 51.72 | −14 38 16.8 | 25 21.6 | 0.211282 | 1 17 | 4 44 |
| 31 | 21 55 56.61 | 4 50.52 | 14 12 55.2 | 25 44.7 | 0.210589 | 1 18 | 4 47 |
| Febr. 1 | 22 0 47.13 | 4 49.34 | 13 47 10.5 | 26 6.9 | 0.209884 | 1 19 | 4 49 |
| 2 | 22 5 36.47 | 4 48.17 | 13 21 3.6 | 26 28.3 | 0.209167 | 1 20 | 4 52 |
| 3 | 22 10 24.64 | +4 47.03 | 12 54 35.3 | +26 48.9 | 0.208437 | 1 20 | 4 54 |
| 4 | 22 15 11.67 | 4 45.91 | −12 27 46.4 | 27 8.7 | 0.207695 | 1 21 | 4 57 |
| 5 | 22 19 57.58 | 4 44.82 | 12 0 37.7 | 27 27.7 | 0.206941 | 1 22 | 4 59 |
| 6 | 22 24 42.40 | 4 43.76 | 11 33 10.0 | 27 45.9 | 0.206175 | 1 23 | 5 2 |
| 7 | 22 29 26.16 | 4 42.72 | 11 5 24.1 | 28 3.3 | 0.205396 | 1 24 | 5 5 |
| 8 | 22 34 8.88 | | 10 37 20.8 | | 0.204604 | 1 24 | 5 7 |

Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tagbogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Febr. 7 | 22 29 26.16 | +4 42.72 | −11 5 24.1 | +28 3.3 | 0.205396 | 1 24 | 5 5 |
| 8 | 22 34 8.88 | 4 41.71 | 10 37 20.8 | 28 19.9 | 0.204604 | 1 24 | 5 7 |
| 9 | 22 38 50.59 | 4 40.73 | 10 9 0.9 | 28 35.8 | 0.203799 | 1 25 | 5 10 |
| 10 | 22 43 31.32 | 4 39.80 | 9 40 25.1 | 28 50.8 | 0.202982 | 1 26 | 5 12 |
| 11 | 22 48 11.12 | +4 38.90 | 9 11 34.3 | +29 5.0 | 0.202153 | 1 27 | 5 15 |
| 12 | 22 52 50.02 | 4 38.03 | −8 42 29.3 | 29 18.6 | 0.201311 | 1 27 | 5 18 |
| 13 | 22 57 28.05 | 4 37.21 | 8 13 10.7 | 29 31.4 | 0.200456 | 1 28 | 5 20 |
| 14 | 23 2 5.26 | 4 36.42 | 7 43 39.3 | 29 43.4 | 0.199589 | 1 29 | 5 23 |
| 15 | 23 6 41.68 | 4 35.68 | 7 13 55.9 | 29 54.7 | 0.198709 | 1 29 | 5 26 |
| 16 | 23 11 17.36 | +4 34.97 | 6 44 1.2 | +30 5.2 | 0.197815 | 1 30 | 5 28 |
| 17 | 23 15 52.33 | 4 34.30 | −6 13 56.0 | 30 15.0 | 0.196908 | 1 31 | 5 31 |
| 18 | 23 20 26.63 | 4 33.67 | 5 43 41.0 | 30 24.0 | 0.195988 | 1 31 | 5 34 |
| 19 | 23 25 0.30 | 4 33.09 | 5 13 17.0 | 30 32.3 | 0.195055 | 1 32 | 5 36 |
| 20 | 23 29 33.39 | 4 32.55 | 4 42 44.7 | 30 39.8 | 0.194108 | 1 32 | 5 39 |
| 21 | 23 34 5.94 | +4 32.04 | 4 12 4.9 | +30 46.6 | 0.193147 | 1 33 | 5 42 |
| 22 | 23 38 37.98 | 4 31.58 | −3 41 18.3 | 30 52.7 | 0.192172 | 1 34 | 5 44 |
| 23 | 23 43 9.56 | 4 31.17 | 3 10 25.6 | 30 57.9 | 0.191183 | 1 34 | 5 47 |
| 24 | 23 47 40.73 | 4 30.79 | 2 39 27.7 | 31 2.5 | 0.190179 | 1 35 | 5 50 |
| 25 | 23 52 11.52 | 4 30.45 | 2 8 25.2 | 31 6.3 | 0.189160 | 1 35 | 5 53 |
| 26 | 23 56 41.97 | +4 30.15 | 1 37 18.9 | +31 9.3 | 0.188127 | 1 36 | 5 55 |
| 27 | 0 1 12.12 | 4 29.90 | −1 6 9.6 | 31 11.7 | 0.187079 | 1 36 | 5 58 |
| 28 | 0 5 42.02 | 4 29.69 | 0 34 57.9 | 31 13.3 | 0.186016 | 1 37 | 6 1 |
| März 1 | 0 10 11.71 | 4 29.51 | −0 3 44.6 | 31 14.1 | 0.184937 | 1 38 | 6 3 |
| 2 | 0 14 41.22 | 4 29.38 | +0 27 29.5 | 31 14.2 | 0.183842 | 1 38 | 6 6 |
| 3 | 0 19 10.60 | +4 29.29 | 0 58 43.7 | +31 13.4 | 0.182732 | 1 39 | 6 9 |
| 4 | 0 23 39.89 | 4 29.23 | +1 29 57.1 | 31 11.9 | 0.181606 | 1 39 | 6 11 |
| 5 | 0 28 9.12 | 4 29.21 | 2 1 9.0 | 31 9.7 | 0.180463 | 1 40 | 6 14 |
| 6 | 0 32 38.33 | 4 29.24 | 2 32 18.7 | 31 6.7 | 0.179304 | 1 40 | 6 17 |
| 7 | 0 37 7.57 | 4 29.30 | 3 3 25.4 | 31 3.1 | 0.178129 | 1 41 | 6 20 |
| 8 | 0 41 36.87 | +4 29.41 | 3 34 28.5 | +30 58.6 | 0.176938 | 1 41 | 6 22 |
| 9 | 0 46 6.28 | 4 29.55 | +4 5 27.1 | 30 53.4 | 0.175730 | 1 42 | 6 25 |
| 10 | 0 50 35.83 | 4 29.74 | 4 36 20.5 | 30 47.5 | 0.174505 | 1 43 | 6 28 |
| 11 | 0 55 5.57 | 4 29.97 | 5 7 8.0 | 30 40.8 | 0.173264 | 1 43 | 6 30 |
| 12 | 0 59 35.54 | 4 30.23 | 5 37 48.8 | 30 33.4 | 0.172006 | 1 44 | 6 33 |
| 13 | 1 4 5.77 | +4 30.55 | 6 8 22.2 | +30 25.3 | 0.170731 | 1 44 | 6 36 |
| 14 | 1 8 36.32 | 4 30.90 | +6 38 47.5 | 30 16.5 | 0.169439 | 1 45 | 6 39 |
| 15 | 1 13 7.22 | 4 31.27 | 7 9 4.0 | 30 6.9 | 0.168130 | 1 45 | 6 41 |
| 16 | 1 17 38.49 | 4 31.70 | 7 39 10.9 | 29 56.7 | 0.166804 | 1 46 | 6 44 |
| 17 | 1 22 10.19 | 4 32.17 | 8 9 7.6 | 29 45.7 | 0.165460 | 1 47 | 6 47 |
| 18 | 1 26 42.36 | | 8 38 53.3 | | 0.164099 | 1 47 | 6 49 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| März 17 | 1 22 10.19 | +4 32.17 | +8 9 7.6 | +29 45.7 | 0.165460 | 1 47 | 6 47 |
| 18 | 1 26 42.36 | 4 32.68 | 8 38 53.3 | 29 34.0 | 0.164099 | 1 47 | 6 49 |
| 19 | 1 31 15.04 | 4 33.22 | 9 8 27.3 | 29 21.6 | 0.162720 | 1 48 | 6 52 |
| 20 | 1 35 48.26 | 4 33.80 | 9 37 48.9 | 29 8.4 | 0.161323 | 1 48 | 6 55 |
| 21 | 1 40 22.06 | +4 34.42 | 10 6 57.3 | +28 54.6 | 0.159908 | 1 49 | 6 57 |
| 22 | 1 44 56.48 | 4 35.06 | +10 35 51.9 | 28 40.0 | 0.158475 | 1 50 | 7 0 |
| 23 | 1 49 31.54 | 4 35.74 | 11 4 31.9 | 28 24.6 | 0.157023 | 1 50 | 7 3 |
| 24 | 1 54 7.28 | 4 36.46 | 11 32 56.5 | 28 8.5 | 0.155552 | 1 51 | 7 6 |
| 25 | 1 58 43.74 | 4 37.19 | 12 1 5.0 | 27 51.8 | 0.154062 | 1 52 | 7 8 |
| 26 | 2 3 20.93 | +4 37.96 | 12 28 56.8 | +27 34.2 | 0.152552 | 1 52 | 7 11 |
| 27 | 2 7 58.89 | 4 38.76 | +12 56 31.0 | 27 15.9 | 0.151023 | 1 53 | 7 14 |
| 28 | 2 12 37.65 | 4 39.58 | 13 23 46.9 | 26 56.9 | 0.149474 | 1 54 | 7 16 |
| 29 | 2 17 17.23 | 4 40.42 | 13 50 43.8 | 26 37.1 | 0.147904 | 1 54 | 7 19 |
| 30 | 2 21 57.65 | 4 41.29 | 14 17 20.9 | 26 16.6 | 0.146314 | 1 55 | 7 22 |
| 31 | 2 26 38.94 | +4 42.16 | 14 43 37.5 | +25 55.3 | 0.144704 | 1 56 | 7 24 |
| April 1 | 2 31 21.10 | 4 43.05 | +15 9 32.8 | 25 33.2 | 0.143072 | 1 57 | 7 27 |
| 2 | 2 36 4.15 | 4 43.97 | 15 35 6.0 | 25 10.5 | 0.141419 | 1 57 | 7 29 |
| 3 | 2 40 48.12 | 4 44.89 | 16 0 16.5 | 24 47.0 | 0.139744 | 1 58 | 7 32 |
| 4 | 2 45 33.01 | 4 45.82 | 16 25 3.5 | 24 22.7 | 0.138048 | 1 59 | 7 35 |
| 5 | 2 50 18.83 | +4 46.76 | 16 49 26.2 | +23 57.6 | 0.136330 | 2 0 | 7 37 |
| 6 | 2 55 5.59 | 4 47.71 | +17 13 23.8 | 23 31.9 | 0.134589 | 2 1 | 7 40 |
| 7 | 2 59 53.30 | 4 48.67 | 17 36 55.7 | 23 5.5 | 0.132827 | 2 1 | 7 42 |
| 8 | 3 4 41.97 | 4 49.63 | 18 0 1.2 | 22 38.3 | 0.131043 | 2 2 | 7 45 |
| 9 | 3 9 31.60 | 4 50.59 | 18 22 39.5 | 22 10.4 | 0.129236 | 2 3 | 7 47 |
| 10 | 3 14 22.19 | +4 51.55 | 18 44 49.9 | +21 41.8 | 0.127407 | 2 4 | 7 49 |
| 11 | 3 19 13.74 | 4 52.51 | +19 6 31.7 | 21 12.7 | 0.125555 | 2 5 | 7 52 |
| 12 | 3 24 6.25 | 4 53.47 | 19 27 44.4 | 20 42.8 | 0.123680 | 2 6 | 7 54 |
| 13 | 3 28 59.72 | 4 54.43 | 19 48 27.2 | 20 12.3 | 0.121783 | 2 7 | 7 56 |
| 14 | 3 33 54.15 | 4 55.39 | 20 8 39.5 | 19 41.2 | 0.119862 | 2 8 | 7 59 |
| 15 | 3 38 49.54 | +4 56.33 | 20 28 20.7 | +19 9.4 | 0.117918 | 2 9 | 8 1 |
| 16 | 3 43 45.87 | 4 57.25 | +20 47 30.1 | 18 36.9 | 0.115951 | 2 10 | 8 3 |
| 17 | 3 48 43.12 | 4 58.16 | 21 6 7.0 | 18 3.9 | 0.113960 | 2 11 | 8 5 |
| 18 | 3 53 41.28 | 4 59.05 | 21 24 10.9 | 17 30.3 | 0.111945 | 2 12 | 8 8 |
| 19 | 3 58 40.33 | 4 59.93 | 21 41 41.2 | 16 56.1 | 0.109906 | 2 13 | 8 10 |
| 20 | 4 3 40.26 | +5 0.79 | 21 58 37.3 | +16 21.3 | 0.107842 | 2 14 | 8 12 |
| 21 | 4 8 41.05 | 5 1.62 | +22 14 58.6 | 15 45.9 | 0.105753 | 2 15 | 8 14 |
| 22 | 4 13 42.67 | 5 2.42 | 22 30 44.5 | 15 10.0 | 0.103640 | 2 16 | 8 16 |
| 23 | 4 18 45.09 | 5 3.19 | 22 45 54.5 | 14 33.7 | 0.101502 | 2 17 | 8 17 |
| 24 | 4 23 48.28 | 5 3.92 | 23 0 28.2 | 13 56.8 | 0.099337 | 2 18 | 8 19 |
| 25 | 4 28 52.20 | | 23 14 25.0 | | 0.097147 | 2 19 | 8 21 |

## Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| April 24 | 4 23 48.28 | +5 3.92 | +23 0 28.2 | +13 56.8 | 0.099337 | 2 18 | 8 19 |
| 25 | 4 28 52.20 | 5 4.62 | 23 14 25.0 | 13 19.4 | 0.097147 | 2 19 | 8 21 |
| 26 | 4 33 56.82 | 5 5.28 | 23 27 44.4 | 12 41.5 | 0.094931 | 2 21 | 8 23 |
| 27 | 4 39 2.10 | 5 5.89 | 23 40 25.9 | 12 3.1 | 0.092688 | 2 22 | 8 24 |
| 28 | 4 44 7.99 | +5 6.45 | 23 52 29.0 | +11 24.4 | 0.090418 | 2 23 | 8 26 |
| 29 | 4 49 14.44 | 5 6.96 | +24 3 53.4 | 10 45.3 | 0.088120 | 2 24 | 8 27 |
| 30 | 4 54 21.40 | 5 7.42 | 24 14 38.7 | 10 5.8 | 0.085795 | 2 25 | 8 29 |
| Mai 1 | 4 59 28.82 | 5 7.82 | 24 24 44.5 | 9 25.9 | 0.083442 | 2 26 | 8 30 |
| 2 | 5 4 36.64 | 5 8.16 | 24 34 10.4 | 8 45.6 | 0.081060 | 2 28 | 8 31 |
| 3 | 5 9 44.80 | +5 8.44 | 24 42 56.0 | + 8 5.1 | 0.078650 | 2 29 | 8 33 |
| 4 | 5 14 53.24 | 5 8.66 | +24 51 1.1 | 7 24.4 | 0.076211 | 2 30 | 8 34 |
| 5 | 5 20 1.90 | 5 8.81 | 24 58 25.5 | 6 43.4 | 0.073743 | 2 31 | 8 35 |
| 6 | 5 25 10.71 | 5 8.91 | 25 5 8.9 | 6 2.2 | 0.071246 | 2 32 | 8 36 |
| 7 | 5 30 19.62 | 5 8.93 | 25 11 11.1 | 5 20.8 | 0.068719 | 2 34 | 8 36 |
| 8 | 5 35 28.55 | +5 8.89 | 25 16 31.9 | + 4 39.4 | 0.066162 | 2 35 | 8 37 |
| 9 | 5 40 37.44 | 5 8.79 | +25 21 11.3 | 3 57.8 | 0.063576 | 2 36 | 8 38 |
| 10 | 5 45 46.23 | 5 8.62 | 25 25 9.1 | 3 16.1 | 0.060960 | 2 37 | 8 38 |
| 11 | 5 50 54.85 | 5 8.37 | 25 28 25.2 | 2 34.4 | 0.058314 | 2 38 | 8 39 |
| 12 | 5 56 3.22 | 5 8.06 | 25 30 59.6 | 1 52.8 | 0.055638 | 2 40 | 8 39 |
| 13 | 6 1 11.28 | +5 7.70 | 25 32 52.4 | + 1 11.1 | 0.052931 | 2 41 | 8 39 |
| 14 | 6 6 18.98 | 5 7.27 | +25 34 3.5 | + 0 29.5 | 0.050193 | 2 42 | 8 40 |
| 15 | 6 11 26.25 | 5 6.76 | 25 34 33.0 | − 0 11.9 | 0.047424 | 2 43 | 8 40 |
| 16 | 6 16 33.01 | 5 6.18 | 25 34 21.1 | 0 53.3 | 0.044624 | 2 44 | 8 40 |
| 17 | 6 21 39.19 | 5 5.55 | 25 33 27.8 | 1 34.5 | 0.041793 | 2 46 | 8 39 |
| 18 | 6 26 44.74 | +5 4.85 | 25 31 53.3 | − 2 15.6 | 0.038930 | 2 47 | 8 39 |
| 19 | 6 31 49.59 | 5 4.08 | +25 29 37.7 | 2 56.4 | 0.036034 | 2 48 | 8 39 |
| 20 | 6 36 53.67 | 5 3.25 | 25 26 41.3 | 3 37.1 | 0.033106 | 2 49 | 8 39 |
| 21 | 6 41 56.92 | 5 2.35 | 25 23 4.2 | 4 17.5 | 0.030145 | 2 50 | 8 38 |
| 22 | 6 46 59.27 | 5 1.40 | 25 18 46.7 | 4 57.5 | 0.027150 | 2 51 | 8 37 |
| 23 | 6 52 0.67 | +5 0.38 | 25 13 49.2 | − 5 37.2 | 0.024122 | 2 52 | 8 37 |
| 24 | 6 57 1.05 | 4 59.30 | +25 8 12.0 | 6 16.6 | 0.021060 | 2 53 | 8 36 |
| 25 | 7 2 0.35 | 4 58.15 | 25 1 55.4 | 6 55.6 | 0.017963 | 2 54 | 8 35 |
| 26 | 7 6 58.50 | 4 56.95 | 24 54 59.8 | 7 34.3 | 0.014831 | 2 55 | 8 34 |
| 27 | 7 11 55.45 | 4 55.68 | 24 47 25.5 | 8 12.5 | 0.011664 | 2 56 | 8 33 |
| 28 | 7 16 51.13 | +4 54.35 | 24 39 13.0 | − 8 50.2 | 0.008460 | 2 57 | 8 32 |
| 29 | 7 21 45.48 | 4 52.96 | +24 30 22.8 | 9 27.5 | 0.005220 | 2 58 | 8 31 |
| 30 | 7 26 38.44 | 4 51.51 | 24 20 55.3 | 10 4.3 | 0.001943 | 2 59 | 8 30 |
| 31 | 7 31 29.95 | 4 50.00 | 24 10 51.0 | 10 40.6 | 9.998628 | 3 0 | 8 28 |
| Juni 1 | 7 36 19.95 | 4 48.45 | 24 0 10.4 | 11 16.2 | 9.995276 | 3 1 | 8 27 |
| 2 | 7 41 8.40 | | 23 48 54.2 | | 9.991885 | 3 2 | 8 25 |

## Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|---|
| | | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Juni | 1 | 7 36 19.95 | +4 48.45 | +24 0 10.4 | −11 16.2 | 9.995276 | 3 1 | 8 27 |
| | 2 | 7 41 8.40 | 4 46.83 | 23 48 54.2 | 11 51.2 | 9.991885 | 3 2 | 8 25 |
| | 3 | 7 45 55.23 | 4 45.16 | 23 37 3.0 | 12 25.8 | 9.988456 | 3 3 | 8 24 |
| | 4 | 7 50 40.39 | 4 43.45 | 23 24 37.2 | 12 59.7 | 9.984988 | 3 4 | 8 22 |
| | 5 | 7 55 23.84 | +4 41.70 | 23 11 37.5 | −13 32.9 | 9.981480 | 3 4 | 8 21 |
| | 6 | 8 0 5.54 | 4 39.90 | +22 58 4.6 | 14 5.5 | 9.977933 | 3 5 | 8 19 |
| | 7 | 8 4 45.44 | 4 38.05 | 22 43 59.1 | 14 37.5 | 9.974347 | 3 6 | 8 17 |
| | 8 | 8 9 23.49 | 4 36.17 | 22 29 21.6 | 15 8.7 | 9.970720 | 3 7 | 8 15 |
| | 9 | 8 13 59.66 | 4 34.26 | 22 14 12.9 | 15 39.4 | 9.967053 | 3 7 | 8 14 |
| | 10 | 8 18 33.92 | +4 32.32 | 21 58 33.5 | −16 9.3 | 9.963346 | 3 8 | 8 12 |
| | 11 | 8 23 6.24 | 4 30.35 | +21 42 24.2 | 16 38.5 | 9.959597 | 3 8 | 8 10 |
| | 12 | 8 27 36.59 | 4 28.34 | 21 25 45.7 | 17 7.0 | 9.955807 | 3 9 | 8 8 |
| | 13 | 8 32 4.93 | 4 26.32 | 21 8 38.7 | 17 34.8 | 9.951975 | 3 10 | 8 6 |
| | 14 | 8 36 31.25 | 4 24.27 | 20 51 3.9 | 18 1.9 | 9.948101 | 3 10 | 8 4 |
| | 15 | 8 40 55.52 | +4 22.19 | 20 33 2.0 | −18 28.2 | 9.944184 | 3 10 | 8 2 |
| | 16 | 8 45 17.71 | 4 20.10 | +20 14 33.8 | 18 53.7 | 9.940225 | 3 11 | 7 59 |
| | 17 | 8 49 37.81 | 4 17.98 | 19 55 40.1 | 19 18.7 | 9.936222 | 3 11 | 7 57 |
| | 18 | 8 53 55.79 | 4 15.84 | 19 36 21.4 | 19 42.9 | 9.932175 | 3 12 | 7 55 |
| | 19 | 8 58 11.63 | 4 13.70 | 19 16 38.5 | 20 6.3 | 9.928084 | 3 12 | 7 53 |
| | 20 | 9 2 25.33 | +4 11.53 | 18 56 32.2 | −20 29.0 | 9.923948 | 3 12 | 7 51 |
| | 21 | 9 6 36.86 | 4 9.34 | +18 36 3.2 | 20 51.0 | 9.919766 | 3 13 | 7 48 |
| | 22 | 9 10 46.20 | 4 7.14 | 18 15 12.2 | 21 12.2 | 9.915538 | 3 13 | 7 46 |
| | 23 | 9 14 53.34 | 4 4.93 | 17 54 0.0 | 21 32.7 | 9.911263 | 3 13 | 7 44 |
| | 24 | 9 18 58.27 | 4 2.69 | 17 32 27.3 | 21 52.4 | 9.906941 | 3 13 | 7 42 |
| | 25 | 9 23 0.96 | +4 0.43 | 17 10 34.9 | −22 11.3 | 9.902571 | 3 13 | 7 39 |
| | 26 | 9 27 1.39 | 3 58.15 | +16 48 23.6 | 22 29.5 | 9.898152 | 3 13 | 7 37 |
| | 27 | 9 30 59.54 | 3 55.84 | 16 25 54.1 | 22 46.9 | 9.893683 | 3 13 | 7 35 |
| | 28 | 9 34 55.38 | 3 53.52 | 16 3 7.2 | 23 3.4 | 9.889163 | 3 13 | 7 32 |
| | 29 | 9 38 48.90 | 3 51.17 | 15 40 3.8 | 23 19.1 | 9.884592 | 3 13 | 7 30 |
| | 30 | 9 42 40.07 | +3 48.79 | 15 16 44.7 | −23 34.0 | 9.879970 | 3 13 | 7 28 |
| Juli | 1 | 9 46 28.86 | 3 46.38 | +14 53 10.7 | 23 48.2 | 9.875295 | 3 13 | 7 25 |
| | 2 | 9 50 15.24 | 3 43.94 | 14 29 22.5 | 24 1.5 | 9.870568 | 3 13 | 7 23 |
| | 3 | 9 53 59.18 | 3 41.49 | 14 5 21.0 | 24 13.9 | 9.865788 | 3 13 | 7 20 |
| | 4 | 9 57 40.67 | 3 39.01 | 13 41 7.1 | 24 25.6 | 9.860954 | 3 12 | 7 18 |
| | 5 | 10 1 19.68 | +3 36.50 | 13 16 41.5 | −24 36.5 | 9.856066 | 3 12 | 7 16 |
| | 6 | 10 4 56.18 | 3 33.96 | +12 52 5.0 | 24 46.5 | 9.851124 | 3 12 | 7 13 |
| | 7 | 10 8 30.14 | 3 31.40 | 12 27 18.5 | 24 55.6 | 9.846127 | 3 11 | 7 11 |
| | 8 | 10 12 1.54 | 3 28.81 | 12 2 22.9 | 25 3.9 | 9.841075 | 3 11 | 7 8 |
| | 9 | 10 15 30.35 | 3 26.18 | 11 37 19.0 | 25 11.5 | 9.835967 | 3 10 | 7 6 |
| | 10 | 10 18 56.53 | | 11 12 7.5 | | 9.830803 | 3 10 | 7 4 |

## Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|---|
| | | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Juli | 9 | 10 15 30.35 | +3 26.18 | +11 37 19.0 | −25 11.5 | 9.835967 | 3 10 | 7 6 |
| | 10 | 10 18 56.53 | 3 23.52 | 11 12 7.5 | 25 18.3 | 9.830803 | 3 10 | 7 4 |
| | 11 | 10 22 20.05 | 3 20.83 | 10 46 49.2 | 25 24.3 | 9.825582 | 3 9 | 7 1 |
| | 12 | 10 25 40.88 | 3 18.11 | 10 21 24.9 | 25 29.4 | 9.820305 | 3 9 | 6 59 |
| | 13 | 10 28 58.99 | +3 15.35 | 9 55 55.5 | −25 33.7 | 9.814971 | 3 8 | 6 56 |
| | 14 | 10 32 14.34 | 3 12.54 | + 9 30 21.8 | 25 37.1 | 9.809580 | 3 7 | 6 54 |
| | 15 | 10 35 26.88 | 3 9.70 | 9 4 44.7 | 25 39.8 | 9.804131 | 3 7 | 6 52 |
| | 16 | 10 38 36.58 | 3 6.82 | 8 39 4.9 | 25 41.6 | 9.798623 | 3 6 | 6 49 |
| | 17 | 10 41 43.40 | 3 3.88 | 8 13 23.3 | 25 42.7 | 9.793057 | 3 5 | 6 47 |
| | 18 | 10 44 47.28 | +3 0.89 | 7 47 40.6 | −25 42.9 | 9.787433 | 3 4 | 6 45 |
| | 19 | 10 47 48.17 | 2 57.85 | + 7 21 57.7 | 25 42.3 | 9.781749 | 3 3 | 6 42 |
| | 20 | 10 50 46.02 | 2 54.75 | 6 56 15.4 | 25 40.8 | 9.776006 | 3 2 | 6 40 |
| | 21 | 10 53 40.77 | 2 51.59 | 6 30 34.6 | 25 38.3 | 9.770203 | 3 1 | 6 38 |
| | 22 | 10 56 32.36 | 2 48.35 | 6 4 56.3 | 25 35.0 | 9.764340 | 3 0 | 6 36 |
| | 23 | 10 59 20.71 | +2 45.03 | 5 39 21.3 | −25 30.8 | 9.758417 | 2 59 | 6 33 |
| | 24 | 11 2 5.74 | 2 41.64 | + 5 13 50.5 | 25 25.7 | 9.752433 | 2 58 | 6 31 |
| | 25 | 11 4 47.38 | 2 38.15 | 4 48 24.8 | 25 19.5 | 9.746388 | 2 57 | 6 29 |
| | 26 | 11 7 25.53 | 2 34.55 | 4 23 5.3 | 25 12.3 | 9.740281 | 2 55 | 6 27 |
| | 27 | 11 10 0.08 | 2 30.85 | 3 57 53.0 | 25 3.9 | 9.734113 | 2 54 | 6 24 |
| | 28 | 11 12 30.93 | +2 27.04 | 3 32 49.1 | −24 54.4 | 9.727884 | 2 53 | 6 22 |
| | 29 | 11 14 57.97 | 2 23.11 | + 3 7 54.7 | 24 43.8 | 9.721595 | 2 51 | 6 20 |
| | 30 | 11 17 21.08 | 2 19.05 | 2 43 10.9 | 24 32.1 | 9.715246 | 2 49 | 6 18 |
| | 31 | 11 19 40.13 | 2 14.86 | 2 18 38.8 | 24 19.1 | 9.708838 | 2 48 | 6 16 |
| Aug. | 1 | 11 21 54.99 | 2 10.53 | 1 54 19.7 | 24 4.7 | 9.702371 | 2 46 | 6 14 |
| | 2 | 11 24 5.52 | +2 6.08 | 1 30 15.0 | −23 49.0 | 9.695848 | 2 44 | 6 11 |
| | 3 | 11 26 11.60 | 2 1.47 | + 1 6 26.0 | 23 32.0 | 9.689270 | 2 43 | 6 9 |
| | 4 | 11 28 13.07 | 1 56.70 | 0 42 54.0 | 23 13.7 | 9.682638 | 2 41 | 6 7 |
| | 5 | 11 30 9.77 | 1 51.78 | + 0 19 40.3 | 22 54.0 | 9.675955 | 2 39 | 6 5 |
| | 6 | 11 32 1.55 | 1 46.70 | − 0 3 13.7 | 22 32.7 | 9.669223 | 2 37 | 6 3 |
| | 7 | 11 33 48.25 | +1 41.45 | 0 25 46.4 | −22 9.9 | 9.662444 | 2 34 | 6 1 |
| | 8 | 11 35 29.70 | 1 36.03 | − 0 47 56.3 | 21 45.5 | 9.655622 | 2 32 | 6 0 |
| | 9 | 11 37 5.73 | 1 30.43 | 1 9 41.8 | 21 19.5 | 9.648759 | 2 30 | 5 58 |
| | 10 | 11 38 36.16 | 1 24.66 | 1 31 1.3 | 20 51.8 | 9.641861 | 2 27 | 5 56 |
| | 11 | 11 40 0.82 | 1 18.70 | 1 51 53.1 | 20 22.3 | 9.634930 | 2 25 | 5 54 |
| | 12 | 11 41 19.52 | +1 12.55 | 2 12 15.4 | −19 51.0 | 9.627972 | 2 22 | 5 52 |
| | 13 | 11 42 32.07 | 1 6.22 | − 2 32 6.4 | 19 17.8 | 9.620992 | 2 19 | 5 50 |
| | 14 | 11 43 38.29 | 0 59.70 | 2 51 24.2 | 18 42.7 | 9.613995 | 2 17 | 5 49 |
| | 15 | 11 44 37.99 | 0 52.99 | 3 10 6.9 | 18 5.5 | 9.606987 | 2 14 | 5 47 |
| | 16 | 11 45 30.98 | 0 46.10 | 3 28 12.4 | 17 26.2 | 9.599976 | 2 11 | 5 45 |
| | 17 | 11 46 17.08 | | 3 45 38.6 | | 9.592969 | 2 7 | 5 44 |

## Wahrer geozentrischer Ort.

| 0ʰ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Aug. 16 | 11 45 30.98 | +0 46.10 | −3 28 12.4 | −17 26.2 | 9.599976 | 2 11 | 5 45 |
| 17 | 11 46 17.08 | 0 39.03 | 3 45 38.6 | 16 44.7 | 9.592969 | 2 7 | 5 44 |
| 18 | 11 46 56.11 | 0 31.77 | 4 2 23.3 | 16 0.9 | 9.585972 | 2 4 | 5 43 |
| 19 | 11 47 27.88 | 0 24.33 | 4 18 24.2 | 15 14.8 | 9.578995 | 2 1 | 5 41 |
| 20 | 11 47 52.21 | +0 16.73 | 4 33 39.0 | −14 26.4 | 9.572048 | 1 57 | 5 40 |
| 21 | 11 48 8.94 | 0 8.96 | −4 48 5.4 | 13 35.4 | 9.565140 | 1 54 | 5 39 |
| 22 | 11 48 17.90 | +0 1.03 | 5 1 40.8 | 12 41.6 | 9.558281 | 1 50 | 5 37 |
| 23 | 11 48 18.93 | −0 7.03 | 5 14 22.4 | 11 45.0 | 9.551485 | 1 46 | 5 36 |
| 24 | 11 48 11.90 | 0 15.22 | 5 26 7.4 | 10 45.7 | 9.544763 | 1 42 | 5 35 |
| 25 | 11 47 56.68 | −0 23.50 | 5 36 53.1 | − 9 43.8 | 9.538130 | 1 38 | 5 34 |
| 26 | 11 47 33.18 | 0 31.83 | −5 46 36.9 | 8 39.2 | 9.531600 | 1 33 | 5 33 |
| 27 | 11 47 1.35 | 0 40.20 | 5 55 16.1 | 7 31.7 | 9.525190 | 1 29 | 5 33 |
| 28 | 11 46 21.15 | 0 48.56 | 6 2 47.8 | 6 21.5 | 9.518917 | 1 24 | 5 32 |
| 29 | 11 45 32.59 | 0 56.87 | 6 9 9.3 | 5 8.8 | 9.512798 | 1 19 | 5 31 |
| 30 | 11 44 35.72 | −1 5.07 | 6 14 18.1 | − 3 53.8 | 9.506852 | 1 14 | 5 31 |
| 31 | 11 43 30.65 | 1 13.10 | −6 18 11.9 | 2 36.6 | 9.501100 | 1 9 | 5 31 |
| Sept. 1 | 11 42 17.55 | 1 20.91 | 6 20 48.5 | − 1 17.6 | 9.495561 | 1 4 | 5 30 |
| 2 | 11 40 56.64 | 1 28.44 | 6 22 6.1 | + 0 2.9 | 9.490257 | 0 59 | 5 30 |
| 3 | 11 39 28.20 | 1 35.63 | 6 22 3.2 | 1 24.7 | 9.485208 | 0 54 | 5 30 |
| 4 | 11 37 52.57 | −1 42.40 | 6 20 38.5 | + 2 47.2 | 9.480437 | 0 48 | 5 30 |
| 5 | 11 36 10.17 | 1 48.69 | −6 17 51.3 | 4 9.9 | 9.475965 | 0 42 | 5 31 |
| 6 | 11 34 21.48 | 1 54.42 | 6 13 41.4 | 5 32.2 | 9.471813 | 0 37 | 5 31 |
| 7 | 11 32 27.06 | 1 59.54 | 6 8 9.2 | 6 53.5 | 9.468000 | 0 31 | 5 31 |
| 8 | 11 30 27.52 | 2 3.99 | 6 1 15.7 | 8 13.3 | 9.464547 | 0 25 | 5 32 |
| 9 | 11 28 23.53 | −2 7.71 | 5 53 2.4 | + 9 31.0 | 9.461471 | 0 19 | 5 33 |
| 10 | 11 26 15.82 | 2 10.64 | −5 43 31.4 | 10 45.8 | 9.458790 | 0 13 | 5 34 |
| 11 | 11 24 5.18 | 2 12.75 | 5 32 45.6 | 11 57.0 | 9.456517 | 0 7 | 5 35 |
| 12 | 11 21 52.43 | 2 14.00 | 5 20 48.6 | 13 4.0 | 9.454666 | 0 1 | 5 36 |
| 13 | 11 19 38.43 | 2 14.39 | 5 7 44.6 | 14 6.2 | 9.453246 | 23 54 | 5 37 |
| 14 | 11 17 24.04 | 2 13.90 | 4 53 38.4 | +15 3.2 | 9.452264 | 23 48 | 5 38 |
| 15 | 11 15 10.14 | 2 12.53 | −4 38 35.2 | 15 54.4 | 9.451725 | 23 42 | 5 39 |
| 16 | 11 12 57.61 | 2 10.31 | 4 22 40.8 | 16 39.5 | 9.451632 | 23 36 | 5 41 |
| 17 | 11 10 47.30 | 2 7.25 | 4 6 1.3 | 17 18.3 | 9.451984 | 23 30 | 5 42 |
| 18 | 11 8 40.05 | 2 3.39 | 3 48 43.0 | 17 50.5 | 9.452776 | 23 24 | 5 44 |
| 19 | 11 6 36.66 | −1 58.79 | 3 30 52.5 | +18 16.0 | 9.454003 | 23 18 | 5 45 |
| 20 | 11 4 37.87 | 1 53.48 | −3 12 36.5 | 18 34.8 | 9.455656 | 23 12 | 5 47 |
| 21 | 11 2 44.39 | 1 47.52 | 2 54 1.7 | 18 47.0 | 9.457723 | 23 6 | 5 49 |
| 22 | 11 0 56.87 | 1 40.95 | 2 35 14.7 | 18 52.7 | 9.460193 | 23 0 | 5 50 |
| 23 | 10 59 15.92 | 1 33.85 | 2 16 22.0 | 18 52.0 | 9.463051 | 22 55 | 5 52 |
| 24 | 10 57 42.07 | | 1 57 30.0 | | 9.466280 | 22 49 | 5 53 |

## Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Sept. 23 | 10 59 15.92 | −1 33.85 | −2 16 22.0 | +18 52.0 | 9.463051 | 22 55 | 5 52 |
| 24 | 10 57 42.07 | 1 26.28 | 1 57 30.0 | 18 45.1 | 9.466280 | 22 49 | 5 53 |
| 25 | 10 56 15.79 | 1 18.29 | 1 38 44.9 | 18 32.5 | 9.469862 | 22 44 | 5 55 |
| 26 | 10 54 57.50 | 1 9.96 | 1 20 12.4 | 18 14.4 | 9.473780 | 22 38 | 5 57 |
| 27 | 10 53 47.54 | −1 1.35 | 1 1 58.0 | +17 51.2 | 9.478014 | 22 33 | 5 58 |
| 28 | 10 52 46.19 | 0 52.50 | −0 44 6.8 | 17 23.5 | 9.482544 | 22 28 | 6 0 |
| 29 | 10 51 53.69 | 0 43.47 | 0 26 43.3 | 16 51.4 | 9.487349 | 22 24 | 6 1 |
| 30 | 10 51 10.22 | 0 34.32 | −0 9 51.9 | 16 15.4 | 9.492410 | 22 19 | 6 3 |
| Okt. 1 | 10 50 35.90 | 0 25.12 | +0 6 23.5 | 15 35.9 | 9.497706 | 22 14 | 6 4 |
| 2 | 10 50 10.78 | −0 15.90 | 0 21 59.4 | +14 53.2 | 9.503216 | 22 10 | 6 6 |
| 3 | 10 49 54.88 | −0 6.69 | +0 36 52.6 | 14 8.0 | 9.508921 | 22 6 | 6 7 |
| 4 | 10 49 48.19 | +0 2.46 | 0 51 0.6 | 13 20.5 | 9.514802 | 22 2 | 6 8 |
| 5 | 10 49 50.65 | 0 11.52 | 1 4 21.1 | 12 31.1 | 9.520840 | 21 58 | 6 9 |
| 6 | 10 50 2.17 | 0 20.45 | 1 16 52.2 | 11 40.0 | 9.527018 | 21 54 | 6 10 |
| 7 | 10 50 22.62 | +0 29.23 | 1 28 32.2 | +10 47.6 | 9.533318 | 21 50 | 6 11 |
| 8 | 10 50 51.85 | 0 37.85 | +1 39 19.8 | 9 54.1 | 9.539725 | 21 47 | 6 12 |
| 9 | 10 51 29.70 | 0 46.27 | 1 49 13.9 | 9 0.0 | 9.546223 | 21 44 | 6 13 |
| 10 | 10 52 15.97 | 0 54.48 | 1 58 13.9 | 8 5.5 | 9.552798 | 21 41 | 6 14 |
| 11 | 10 53 10.45 | 1 2.48 | 2 6 19.4 | 7 10.6 | 9.559436 | 21 38 | 6 15 |
| 12 | 10 54 12.93 | +1 10.24 | 2 13 30.0 | + 6 15.6 | 9.566124 | 21 35 | 6 15 |
| 13 | 10 55 23.17 | 1 17.75 | +2 19 45.6 | 5 20.8 | 9.572850 | 21 32 | 6 16 |
| 14 | 10 56 40.92 | 1 25.00 | 2 25 6.4 | 4 26.4 | 9.579604 | 21 29 | 6 16 |
| 15 | 10 58 5.92 | 1 32.00 | 2 29 32.8 | 3 32.5 | 9.586376 | 21 27 | 6 17 |
| 16 | 10 59 37.92 | 1 38.76 | 2 33 5.3 | 2 39.1 | 9.593156 | 21 24 | 6 17 |
| 17 | 11 1 16.68 | +1 45.25 | 2 35 44.4 | + 1 46.4 | 9.599937 | 21 22 | 6 17 |
| 18 | 11 3 1.93 | 1 51.49 | +2 37 30.8 | 0 54.5 | 9.606711 | 21 20 | 6 17 |
| 19 | 11 4 53.42 | 1 57.49 | 2 38 25.3 | + 0 3.5 | 9.613471 | 21 18 | 6 17 |
| 20 | 11 6 50.91 | 2 3.25 | 2 38 28.8 | − 0 46.5 | 9.620211 | 21 16 | 6 17 |
| 21 | 11 8 54.16 | 2 8.76 | 2 37 42.3 | 1 35.6 | 9.626927 | 21 14 | 6 17 |
| 22 | 11 11 2.92 | +2 14.04 | 2 36 6.7 | − 2 23.8 | 9.633614 | 21 12 | 6 17 |
| 23 | 11 13 16.96 | 2 19.11 | +2 33 42.9 | 3 10.9 | 9.640267 | 21 10 | 6 17 |
| 24 | 11 15 36.07 | 2 23.97 | 2 30 32.0 | 3 57.0 | 9.646884 | 21 9 | 6 17 |
| 25 | 11 18 0.04 | 2 28.64 | 2 26 35.0 | 4 42.2 | 9.653460 | 21 7 | 6 16 |
| 26 | 11 20 28.68 | 2 33.11 | 2 21 52.8 | 5 26.3 | 9.659993 | 21 6 | 6 16 |
| 27 | 11 23 1.79 | +2 37.40 | 2 16 26.5 | − 6 9.4 | 9.666481 | 21 4 | 6 15 |
| 28 | 11 25 39.19 | 2 41.52 | +2 10 17.1 | 6 51.5 | 9.672922 | 21 3 | 6 15 |
| 29 | 11 28 20.71 | 2 45.46 | 2 3 25.6 | 7 32.4 | 9.679314 | 21 2 | 6 14 |
| 30 | 11 31 6.17 | 2 49.24 | 1 55 53.2 | 8 12.5 | 9.685654 | 21 1 | 6 14 |
| 31 | 11 33 55.41 | 2 52.87 | 1 47 40.7 | 8 51.5 | 9.691942 | 20 59 | 6 13 |
| Nov. 1 | 11 36 48.28 | | 1 38 49.2 | | 9.698176 | 20 58 | 6 12 |

## Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tagbogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Okt. 31 | 11 33 55.41 | +2 52.87 | +1 47 40.7 | −8 51.5 | 9.691942 | 20 59 | 6 13 |
| Nov. 1 | 11 36 48.28 | 2 56.36 | 1 38 49.2 | 9 29.5 | 9.698176 | 20 58 | 6 12 |
| 2 | 11 39 44.64 | 2 59.71 | 1 29 19.7 | 10 6.5 | 9.704356 | 20 57 | 6 11 |
| 3 | 11 42 44.35 | 3 2.93 | 1 19 13.2 | 10 42.5 | 9.710481 | 20 56 | 6 11 |
| 4 | 11 45 47.28 | +3 6.03 | 1 8 30.7 | −11 17.5 | 9.716550 | 20 55 | 6 10 |
| 5 | 11 48 53.31 | 3 9.02 | +0 57 13.2 | 11 51.4 | 9.722561 | 20 55 | 6 9 |
| 6 | 11 52 2.33 | 3 11.89 | 0 45 21.8 | 12 24.5 | 9.728515 | 20 54 | 6 8 |
| 7 | 11 55 14.22 | 3 14.66 | 0 32 57.3 | 12 56.5 | 9.734411 | 20 53 | 6 6 |
| 8 | 11 58 28.88 | 3 17.33 | 0 20 0.8 | 13 27.5 | 9.740249 | 20 52 | 6 5 |
| 9 | 12 1 46.21 | +3 19.89 | +0 6 33.3 | −13 57.4 | 9.746028 | 20 52 | 6 4 |
| 10 | 12 5 6.10 | 3 22.36 | −0 7 24.1 | 14 26.3 | 9.751748 | 20 51 | 6 3 |
| 11 | 12 8 28.46 | 3 24.74 | 0 21 50.4 | 14 54.2 | 9.757408 | 20 51 | 6 2 |
| 12 | 12 11 53.20 | 3 27.04 | 0 36 44.6 | 15 21.0 | 9.763009 | 20 50 | 6 0 |
| 13 | 12 15 20.24 | 3 29.25 | 0 52 5.6 | 15 46.7 | 9.768550 | 20 50 | 5 59 |
| 14 | 12 18 49.49 | +3 31.38 | 1 7 52.3 | −16 11.3 | 9.774032 | 20 49 | 5 58 |
| 15 | 12 22 20.87 | 3 33.44 | −1 24 3.6 | 16 34.8 | 9.779455 | 20 49 | 5 56 |
| 16 | 12 25 54.31 | 3 35.44 | 1 40 38.4 | 16 57.3 | 9.784819 | 20 48 | 5 55 |
| 17 | 12 29 29.75 | 3 37.36 | 1 57 35.7 | 17 18.8 | 9.790125 | 20 48 | 5 53 |
| 18 | 12 33 7.11 | 3 39.22 | 2 14 54.5 | 17 39.2 | 9.795372 | 20 48 | 5 52 |
| 19 | 12 36 46.33 | +3 41.03 | 2 32 33.7 | −17 58.6 | 9.800562 | 20 47 | 5 50 |
| 20 | 12 40 27.36 | 3 42.78 | −2 50 32.3 | 18 17.0 | 9.805695 | 20 47 | 5 49 |
| 21 | 12 44 10.14 | 3 44.50 | 3 8 49.3 | 18 34.3 | 9.810772 | 20 47 | 5 47 |
| 22 | 12 47 54.64 | 3 46.19 | 3 27 23.6 | 18 50.6 | 9.815793 | 20 47 | 5 46 |
| 23 | 12 51 40.83 | 3 47.83 | 3 46 14.2 | 19 6.0 | 9.820760 | 20 46 | 5 44 |
| 24 | 12 55 28.66 | +3 49.43 | 4 5 20.2 | −19 20.5 | 9.825673 | 20 46 | 5 42 |
| 25 | 12 59 18.09 | 3 51.00 | −4 24 40.7 | 19 33.9 | 9.830532 | 20 46 | 5 41 |
| 26 | 13 3 9.09 | 3 52.55 | 4 44 14.6 | 19 46.4 | 9.835338 | 20 46 | 5 39 |
| 27 | 13 7 1.64 | 3 54.08 | 5 4 1.0 | 19 57.9 | 9.840093 | 20 46 | 5 37 |
| 28 | 13 10 55.72 | 3 55.58 | 5 23 58.9 | 20 8.6 | 9.844796 | 20 46 | 5 35 |
| 29 | 13 14 51.30 | +3 57.07 | 5 44 7.5 | −20 18.4 | 9.849449 | 20 46 | 5 34 |
| 30 | 13 18 48.37 | 3 58.54 | −6 4 25.9 | 20 27.2 | 9.854052 | 20 46 | 5 32 |
| Dez. 1 | 13 22 46.91 | 4 0.01 | 6 24 53.1 | 20 35.0 | 9.858607 | 20 46 | 5 30 |
| 2 | 13 26 46.92 | 4 1.47 | 6 45 28.1 | 20 42.0 | 9.863113 | 20 46 | 5 28 |
| 3 | 13 30 48.39 | 4 2.91 | 7 6 10.1 | 20 48.1 | 9.867571 | 20 46 | 5 26 |
| 4 | 13 34 51.30 | +4 4.35 | 7 26 58.2 | −20 53.3 | 9.871981 | 20 46 | 5 24 |
| 5 | 13 38 55.65 | 4 5.80 | −7 47 51.5 | 20 57.5 | 9.876344 | 20 46 | 5 23 |
| 6 | 13 43 1.45 | 4 7.23 | 8 8 49.0 | 21 0.8 | 9.880661 | 20 47 | 5 21 |
| 7 | 13 47 8.68 | 4 8.66 | 8 29 49.8 | 21 3.3 | 9.884933 | 20 47 | 5 19 |
| 8 | 13 51 17.34 | 4 10.09 | 8 50 53.1 | 21 4.9 | 9.889159 | 20 47 | 5 17 |
| 9 | 13 55 27.43 | | 9 11 58.0 | | 9.893340 | 20 47 | 5 15 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Dez. 8 | 13 51 17.34 | +4 10.09 | − 8 50 53.1 | −21 4.9 | 9.889159 | 20 47 | 5 17 |
| 9 | 13 55 27.43 | 4 11.52 | 9 11 58.0 | 21 5.5 | 9.893340 | 20 47 | 5 15 |
| 10 | 13 59 38.95 | 4 12.95 | 9 33 3.5 | 21 5.2 | 9.897476 | 20 47 | 5 13 |
| 11 | 14 3 51.90 | 4 14.36 | 9 54 8.7 | 21 3.9 | 9.901568 | 20 48 | 5 11 |
| 12 | 14 8 6.26 | +4 15.77 | 10 15 12.6 | −21 1.6 | 9.905616 | 20 48 | 5 9 |
| 13 | 14 12 22.03 | 4 17.18 | −10 36 14.2 | 20 58.4 | 9.909620 | 20 48 | 5 7 |
| 14 | 14 16 39.21 | 4 18.59 | 10 57 12.6 | 20 54.2 | 9.913581 | 20 49 | 5 5 |
| 15 | 14 20 57.80 | 4 19.98 | 11 18 6.8 | 20 49.1 | 9.917500 | 20 49 | 5 3 |
| 16 | 14 25 17.78 | 4 21.38 | 11 38 55.9 | 20 43.1 | 9.921377 | 20 49 | 5 2 |
| 17 | 14 29 39.16 | +4 22.77 | 11 59 39.0 | −20 36.1 | 9.925212 | 20 50 | 5 0 |
| 18 | 14 34 1.93 | 4 24.16 | −12 20 15.1 | 20 28.2 | 9.929006 | 20 50 | 4 58 |
| 19 | 14 38 26.09 | 4 25.55 | 12 40 43.3 | 20 19.4 | 9.932760 | 20 51 | 4 56 |
| 20 | 14 42 51.64 | 4 26.94 | 13 1 2.7 | 20 9.7 | 9.936474 | 20 51 | 4 54 |
| 21 | 14 47 18.58 | 4 28.33 | 13 21 12.4 | 19 59.1 | 9.940149 | 20 52 | 4 52 |
| 22 | 14 51 46.91 | +4 29.71 | 13 41 11.5 | −19 47.5 | 9.943786 | 20 52 | 4 50 |
| 23 | 14 56 16.62 | 4 31.10 | −14 0 59.0 | 19 35.1 | 9.947385 | 20 53 | 4 48 |
| 24 | 15 0 47.72 | 4 32.48 | 14 20 34.1 | 19 21.9 | 9.950947 | 20 53 | 4 46 |
| 25 | 15 5 20.20 | 4 33.86 | 14 39 56.0 | 19 7.8 | 9.954471 | 20 54 | 4 44 |
| 26 | 15 9 54.06 | 4 35.24 | 14 59 3.8 | 18 52.8 | 9.957959 | 20 55 | 4 42 |
| 27 | 15 14 29.30 | +4 36.62 | 15 17 56.6 | −18 36.9 | 9.961412 | 20 55 | 4 41 |
| 28 | 15 19 5.92 | 4 37.99 | −15 36 33.5 | 18 20.2 | 9.964830 | 20 56 | 4 39 |
| 29 | 15 23 43.91 | 4 39.37 | 15 54 53.7 | 18 2.7 | 9.968213 | 20 57 | 4 37 |
| 30 | 15 28 23.28 | 4 40.74 | 16 12 56.4 | 17 44.4 | 9.971562 | 20 57 | 4 35 |
| 31 | 15 33 4.02 | 4 42.11 | 16 30 40.8 | 17 25.3 | 9.974878 | 20 58 | 4 33 |
| 32 | 15 37 46.13 | +4 43.48 | 16 48 6.1 | −17 5.3 | 9.978161 | 20 59 | 4 31 |
| 33 | 15 42 29.61 | | −17 5 11.4 | | 9.981411 | 21 0 | 4 30 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Jan. 0 | 16 23 29.84 | +2 58.55 | −21 35 27.7 | −7 24.3 | 0.362587 | 21 48 | 4 0 |
| 1 | 16 26 28.39 | 2 59.00 | 21 42 52.0 | 7 12.8 | 0.361492 | 21 47 | 4 0 |
| 2 | 16 29 27.39 | 2 59.44 | 21 50 4.8 | 7 1.3 | 0.360387 | 21 46 | 3 59 |
| 3 | 16 32 26.83 | 2 59.87 | 21 57 6.1 | 6 49.5 | 0.359274 | 21 45 | 3 58 |
| 4 | 16 35 26.70 | +3 0.29 | 22 3 55.6 | −6 37.7 | 0.358152 | 21 44 | 3 57 |
| 5 | 16 38 26.99 | 3 0.71 | −22 10 33.3 | 6 25.8 | 0.357021 | 21 43 | 3 56 |
| 6 | 16 41 27.70 | 3 1.12 | 22 16 59.1 | 6 13.7 | 0.355882 | 21 42 | 3 56 |
| 7 | 16 44 28.82 | 3 1.52 | 22 23 12.8 | 6 1.5 | 0.354734 | 21 41 | 3 55 |
| 8 | 16 47 30.34 | 3 1.92 | 22 29 14.3 | 5 49.3 | 0.353578 | 21 40 | 3 54 |
| 9 | 16 50 32.26 | +3 2.31 | 22 35 3.6 | −5 37.0 | 0.352414 | 21 39 | 3 53 |
| 10 | 16 53 34.57 | 3 2.69 | −22 40 40.6 | 5 24.5 | 0.351242 | 21 38 | 3 53 |
| 11 | 16 56 37.26 | 3 3.07 | 22 46 5.1 | 5 12.0 | 0.350061 | 21 37 | 3 52 |
| 12 | 16 59 40.33 | 3 3.45 | 22 51 17.1 | 4 59.3 | 0.348872 | 21 36 | 3 51 |
| 13 | 17 2 43.78 | 3 3.83 | 22 56 16.4 | 4 46.6 | 0.347676 | 21 35 | 3 51 |
| 14 | 17 5 47.61 | +3 4.19 | 23 1 3.0 | −4 33.9 | 0.346471 | 21 35 | 3 50 |
| 15 | 17 8 51.80 | 3 4.54 | −23 5 36.9 | 4 21.0 | 0.345259 | 21 34 | 3 50 |
| 16 | 17 11 56.34 | 3 4.88 | 23 9 57.9 | 4 7.9 | 0.344039 | 21 33 | 3 49 |
| 17 | 17 15 1.22 | 3 5.23 | 23 14 5.8 | 3 54.8 | 0.342811 | 21 32 | 3 49 |
| 18 | 17 18 6.45 | 3 5.56 | 23 18 0.6 | 3 41.7 | 0.341575 | 21 31 | 3 48 |
| 19 | 17 21 12.01 | +3 5.89 | 23 21 42.3 | −3 28.6 | 0.340331 | 21 30 | 3 48 |
| 20 | 17 24 17.90 | 3 6.20 | −23 25 10.9 | 3 15.3 | 0.339080 | 21 29 | 3 47 |
| 21 | 17 27 24.10 | 3 6.50 | 23 28 26.2 | 3 1.8 | 0.337821 | 21 29 | 3 47 |
| 22 | 17 30 30.60 | 3 6.78 | 23 31 28.0 | 2 48.3 | 0.336553 | 21 28 | 3 47 |
| 23 | 17 33 37.38 | 3 7.06 | 23 34 16.3 | 2 34.8 | 0.335278 | 21 27 | 3 46 |
| 24 | 17 36 44.44 | +3 7.33 | 23 36 51.1 | −2 21.3 | 0.333995 | 21 26 | 3 46 |
| 25 | 17 39 51.77 | 3 7.58 | −23 39 12.4 | 2 7.5 | 0.332704 | 21 25 | 3 46 |
| 26 | 17 42 59.35 | 3 7.82 | 23 41 19.9 | 1 53.8 | 0.331405 | 21 24 | 3 45 |
| 27 | 17 46 7.17 | 3 8.05 | 23 43 13.7 | 1 40.0 | 0.330099 | 21 24 | 3 45 |
| 28 | 17 49 15.22 | 3 8.27 | 23 44 53.7 | 1 26.1 | 0.328785 | 21 23 | 3 45 |
| 29 | 17 52 23.49 | +3 8.47 | 23 46 19.8 | −1 12.2 | 0.327463 | 21 22 | 3 45 |
| 30 | 17 55 31.96 | 3 8.65 | −23 47 32.0 | 0 58.3 | 0.326133 | 21 21 | 3 45 |
| 31 | 17 58 40.61 | 3 8.82 | 23 48 30.3 | 0 44.3 | 0.324796 | 21 20 | 3 44 |
| Febr. 1 | 18 1 49.43 | 3 8.99 | 23 49 14.6 | 0 30.3 | 0.323452 | 21 20 | 3 44 |
| 2 | 18 4 58.42 | 3 9.14 | 23 49 44.9 | 0 16.3 | 0.322100 | 21 19 | 3 44 |
| 3 | 18 8 7.56 | +3 9.27 | 23 50 1.2 | −0 2.2 | 0.320741 | 21 18 | 3 44 |
| 4 | 18 11 16.83 | 3 9.39 | −23 50 3.4 | +0 11.9 | 0.319375 | 21 17 | 3 44 |
| 5 | 18 14 26.22 | 3 9.51 | 23 49 51.5 | 0 26.0 | 0.318002 | 21 17 | 3 44 |
| 6 | 18 17 35.73 | 3 9.61 | 23 49 25.5 | 0 40.1 | 0.316623 | 21 16 | 3 44 |
| 7 | 18 20 45.34 | 3 9.70 | 23 48 45.4 | 0 54.2 | 0.315237 | 21 15 | 3 44 |
| 8 | 18 23 55.04 | | 23 47 51.2 | | 0.313844 | 21 14 | 3 45 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tagbogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Febr. 7 | 18 20 45.34 | +3 9.70 | −23 48 45.4 | +0 54.2 | 0.315237 | 21 15 | 3 44 |
| 8 | 18 23 55.04 | 3 9.78 | 23 47 51.2 | 1 8.4 | 0.313844 | 21 14 | 3 45 |
| 9 | 18 27 4.82 | 3 9.85 | 23 46 42.8 | 1 22.6 | 0.312445 | 21 13 | 3 45 |
| 10 | 18 30 14.67 | 3 9.91 | 23 45 20.2 | 1 36.7 | 0.311039 | 21 13 | 3 45 |
| 11 | 18 33 24.58 | +3 9.97 | 23 43 43.5 | +1 50.9 | 0.309627 | 21 12 | 3 45 |
| 12 | 18 36 34.55 | 3 10.01 | −23 41 52.6 | 2 5.0 | 0.308209 | 21 11 | 3 45 |
| 13 | 18 39 44.56 | 3 10.05 | 23 39 47.6 | 2 19.1 | 0.306785 | 21 10 | 3 46 |
| 14 | 18 42 54.61 | 3 10.08 | 23 37 28.5 | 2 33.2 | 0.305354 | 21 10 | 3 46 |
| 15 | 18 46 4.69 | 3 10.09 | 23 34 55.3 | 2 47.4 | 0.303917 | 21 9 | 3 46 |
| 16 | 18 49 14.78 | +3 10.08 | 23 32 7.9 | +3 1.5 | 0.302474 | 21 8 | 3 46 |
| 17 | 18 52 24.86 | 3 10.06 | −23 29 6.4 | 3 15.6 | 0.301025 | 21 7 | 3 47 |
| 18 | 18 55 34.92 | 3 10.04 | 23 25 50.8 | 3 29.7 | 0.299570 | 21 6 | 3 47 |
| 19 | 18 58 44.96 | 3 10.00 | 23 22 21.1 | 3 43.7 | 0.298109 | 21 6 | 3 48 |
| 20 | 19 1 54.96 | 3 9.96 | 23 18 37.4 | 3 57.7 | 0.296641 | 21 5 | 3 48 |
| 21 | 19 5 4.92 | +3 9.90 | 23 14 39.7 | +4 11.7 | 0.295167 | 21 4 | 3 49 |
| 22 | 19 8 14.82 | 3 9.82 | −23 10 28.0 | 4 25.6 | 0.293687 | 21 3 | 3 49 |
| 23 | 19 11 24.64 | 3 9.73 | 23 6 2.4 | 4 39.5 | 0.292201 | 21 3 | 3 50 |
| 24 | 19 14 34.37 | 3 9.63 | 23 1 22.9 | 4 53.4 | 0.290709 | 21 2 | 3 50 |
| 25 | 19 17 44.00 | 3 9.52 | 22 56 29.5 | 5 7.1 | 0.289211 | 21 1 | 3 51 |
| 26 | 19 20 53.52 | +3 9.39 | 22 51 22.4 | +5 20.8 | 0.287706 | 21 0 | 3 51 |
| 27 | 19 24 2.91 | 3 9.25 | −22 46 1.6 | 5 34.5 | 0.286195 | 20 59 | 3 52 |
| 28 | 19 27 12.16 | 3 9.10 | 22 40 27.1 | 5 48.1 | 0.284679 | 20 59 | 3 53 |
| März 1 | 19 30 21.26 | 3 8.94 | 22 34 39.0 | 6 1.6 | 0.283157 | 20 58 | 3 53 |
| 2 | 19 33 30.20 | 3 8.76 | 22 28 37.4 | 6 15.0 | 0.281629 | 20 57 | 3 54 |
| 3 | 19 36 38.96 | +3 8.58 | 22 22 22.4 | +6 28.3 | 0.280096 | 20 56 | 3 55 |
| 4 | 19 39 47.54 | 3 8.38 | −22 15 54.1 | 6 41.6 | 0.278558 | 20 55 | 3 56 |
| 5 | 19 42 55.92 | 3 8.17 | 22 9 12.5 | 6 54.9 | 0.277014 | 20 55 | 3 56 |
| 6 | 19 46 4.09 | 3 7.96 | 22 2 17.6 | 7 7.9 | 0.275465 | 20 54 | 3 57 |
| 7 | 19 49 12.05 | 3 7.74 | 21 55 9.7 | 7 20.9 | 0.273911 | 20 53 | 3 58 |
| 8 | 19 52 19.79 | +3 7.51 | 21 47 48.8 | +7 33.9 | 0.272352 | 20 52 | 3 59 |
| 9 | 19 55 27.30 | 3 7.28 | −21 40 14.9 | 7 46.8 | 0.270789 | 20 51 | 4 0 |
| 10 | 19 58 34.58 | 3 7.04 | 21 32 28.1 | 7 59.5 | 0.269221 | 20 51 | 4 1 |
| 11 | 20 1 41.62 | 3 6.80 | 21 24 28.6 | 8 12.1 | 0.267648 | 20 50 | 4 2 |
| 12 | 20 4 48.42 | 3 6.55 | 21 16 16.5 | 8 24.5 | 0.266071 | 20 49 | 4 3 |
| 13 | 20 7 54.97 | +3 6.30 | 21 7 52.0 | +8 37.0 | 0.264490 | 20 48 | 4 4 |
| 14 | 20 11 1.27 | 3 6.04 | −20 59 15.0 | 8 49.3 | 0.262904 | 20 47 | 4 4 |
| 15 | 20 14 7.31 | 3 5.78 | 20 50 25.7 | 9 1.6 | 0.261314 | 20 46 | 4 5 |
| 16 | 20 17 13.09 | 3 5.51 | 20 41 24.1 | 9 13.7 | 0.259719 | 20 46 | 4 6 |
| 17 | 20 20 18.60 | 3 5.23 | 20 32 10.4 | 9 25.8 | 0.258120 | 20 45 | 4 8 |
| 18 | 20 23 23.83 | | 20 22 44.6 | | 0.256516 | 20 44 | 4 9 |

## Wahrer geozentrischer Ort.

| 0ʰ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| März 17 | 20 20 18.60 | +3 5.23 | −20 32 10.4 | +9 25.8 | 0.258120 | 20 45 | 4 8 |
| 18 | 20 23 23.83 | 3 4.95 | 20 22 44.6 | 9 37.6 | 0.256516 | 20 44 | 4 9 |
| 19 | 20 26 28.78 | 3 4.66 | 20 13 7.0 | 9 49.4 | 0.254908 | 20 43 | 4 10 |
| 20 | 20 29 33.44 | 3 4.37 | 20 3 17.6 | 10 1.2 | 0.253296 | 20 42 | 4 11 |
| 21 | 20 32 37.81 | +3 4.07 | 19 53 16.4 | +10 12.7 | 0.251679 | 20 41 | 4 12 |
| 22 | 20 35 41.88 | 3 3.77 | −19 43 3.7 | 10 24.1 | 0.250058 | 20 40 | 4 13 |
| 23 | 20 38 45.65 | 3 3.45 | 19 32 39.6 | 10 35.3 | 0.248432 | 20 39 | 4 14 |
| 24 | 20 41 49.10 | 3 3.13 | 19 22 4.3 | 10 46.4 | 0.246801 | 20 39 | 4 15 |
| 25 | 20 44 52.23 | 3 2.80 | 19 11 17.9 | 10 57.5 | 0.245166 | 20 38 | 4 16 |
| 26 | 20 47 55.03 | +3 2.47 | 19 0 20.4 | +11 8.3 | 0.243527 | 20 37 | 4 18 |
| 27 | 20 50 57.50 | 3 2.13 | −18 49 12.1 | 11 19.0 | 0.241884 | 20 36 | 4 19 |
| 28 | 20 53 59.63 | 3 1.79 | 18 37 53.1 | 11 29.6 | 0.240236 | 20 35 | 4 20 |
| 29 | 20 57 1.42 | 3 1.45 | 18 26 23.5 | 11 39.9 | 0.238584 | 20 34 | 4 21 |
| 30 | 21 0 2.87 | 3 1.09 | 18 14 43.6 | 11 50.1 | 0.236928 | 20 33 | 4 22 |
| 31 | 21 3 3.96 | +3 0.73 | 18 2 53.5 | +12 0.2 | 0.235268 | 20 32 | 4 24 |
| April 1 | 21 6 4.69 | 3 0.37 | −17 50 53.3 | 12 10.1 | 0.233603 | 20 31 | 4 25 |
| 2 | 21 9 5.06 | 3 0.00 | 17 38 43.2 | 12 19.8 | 0.231935 | 20 30 | 4 26 |
| 3 | 21 12 5.06 | 2 59.64 | 17 26 23.4 | 12 29.4 | 0.230263 | 20 29 | 4 27 |
| 4 | 21 15 4.70 | 2 59.27 | 17 13 54.0 | 12 38.8 | 0.228588 | 20 28 | 4 29 |
| 5 | 21 18 3.97 | +2 58.91 | 17 1 15.2 | +12 48.1 | 0.226909 | 20 28 | 4 30 |
| 6 | 21 21 2.88 | 2 58.55 | −16 48 27.1 | 12 57.2 | 0.225227 | 20 27 | 4 31 |
| 7 | 21 24 1.43 | 2 58.19 | 16 35 29.9 | 13 6.2 | 0.223542 | 20 26 | 4 33 |
| 8 | 21 26 59.62 | 2 57.83 | 16 22 23.7 | 13 15.1 | 0.221854 | 20 25 | 4 34 |
| 9 | 21 29 57.45 | 2 57.47 | 16 9 8.6 | 13 23.7 | 0.220163 | 20 24 | 4 35 |
| 10 | 21 32 54.92 | +2 57.11 | 15 55 44.9 | +13 32.3 | 0.218469 | 20 23 | 4 37 |
| 11 | 21 35 52.03 | 2 56.76 | −15 42 12.6 | 13 40.7 | 0.216772 | 20 22 | 4 38 |
| 12 | 21 38 48.79 | 2 56.41 | 15 28 31.9 | 13 48.9 | 0.215072 | 20 21 | 4 39 |
| 13 | 21 41 45.20 | 2 56.06 | 15 14 43.0 | 13 56.9 | 0.213368 | 20 20 | 4 41 |
| 14 | 21 44 41.26 | 2 55.72 | 15 0 46.1 | 14 4.9 | 0.211661 | 20 19 | 4 42 |
| 15 | 21 47 36.98 | +2 55.37 | 14 46 41.2 | +14 12.6 | 0.209951 | 20 18 | 4 44 |
| 16 | 21 50 32.35 | 2 55.02 | −14 32 28.6 | 14 20.2 | 0.208238 | 20 17 | 4 45 |
| 17 | 21 53 27.37 | 2 54.67 | 14 18 8.4 | 14 27.6 | 0.206522 | 20 16 | 4 46 |
| 18 | 21 56 22.04 | 2 54.33 | 14 3 40.8 | 14 34.9 | 0.204802 | 20 15 | 4 48 |
| 19 | 21 59 16.37 | 2 53.98 | 13 49 5.9 | 14 42.0 | 0.203079 | 20 14 | 4 49 |
| 20 | 22 2 10.35 | +2 53.64 | 13 34 23.9 | +14 48.8 | 0.201353 | 20 13 | 4 51 |
| 21 | 22 5 3.99 | 2 53.30 | −13 19 35.1 | 14 55.6 | 0.199624 | 20 11 | 4 52 |
| 22 | 22 7 57.29 | 2 52.96 | 13 4 39.5 | 15 2.1 | 0.197891 | 20 10 | 4 53 |
| 23 | 22 10 50.25 | 2 52.61 | 12 49 37.4 | 15 8.5 | 0.196154 | 20 9 | 4 54 |
| 24 | 22 13 42.86 | 2 52.27 | 12 34 28.9 | 15 14.6 | 0.194414 | 20 8 | 4 56 |
| 25 | 22 16 35.13 | | 12 19 14.3 | | 0.192671 | 20 7 | 4 58 |

## Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| April 24 | 22 13 42.86 | +2 52.27 | −12 34 28.9 | +15 14.6 | 0.194414 | 20 8 | 4 56 |
| 25 | 22 16 35.13 | 2 51.92 | 12 19 14.3 | 15 20.6 | 0.192671 | 20 7 | 4 58 |
| 26 | 22 19 27.05 | 2 51.58 | 12 3 53.7 | 15 26.4 | 0.190924 | 20 6 | 4 59 |
| 27 | 22 22 18.63 | 2 51.24 | 11 48 27.3 | 15 31.9 | 0.189173 | 20 5 | 5 1 |
| 28 | 22 25 9.87 | +2 50.89 | 11 32 55.4 | +15 37.3 | 0.187419 | 20 4 | 5 2 |
| 29 | 22 28 0.76 | 2 50.54 | −11 17 18.1 | 15 42.5 | 0.185662 | 20 3 | 5 4 |
| 30 | 22 30 51.30 | 2 50.20 | 11 1 35.6 | 15 47.5 | 0.183901 | 20 2 | 5 5 |
| Mai 1 | 22 33 41.50 | 2 49.86 | 10 45 48.1 | 15 52.2 | 0.182137 | 20 1 | 5 6 |
| 2 | 22 36 31.36 | 2 49.53 | 10 29 55.9 | 15 56.9 | 0.180370 | 20 0 | 5 8 |
| 3 | 22 39 20.89 | +2 49.19 | 10 13 59.0 | +16 1.4 | 0.178600 | 19 58 | 5 9 |
| 4 | 22 42 10.08 | 2 48.87 | − 9 57 57.6 | 16 5.7 | 0.176828 | 19 57 | 5 11 |
| 5 | 22 44 58.95 | 2 48.55 | 9 41 51.9 | 16 9.8 | 0.175053 | 19 56 | 5 12 |
| 6 | 22 47 47.50 | 2 48.24 | 9 25 42.1 | 16 13.7 | 0.173275 | 19 55 | 5 14 |
| 7 | 22 50 35.74 | 2 47.93 | 9 9 28.4 | 16 17.6 | 0.171494 | 19 54 | 5 15 |
| 8 | 22 53 23.67 | +2 47.63 | 8 53 10.8 | +16 21.2 | 0.169710 | 19 53 | 5 17 |
| 9 | 22 56 11.30 | 2 47.34 | − 8 36 49.6 | 16 24.7 | 0.167924 | 19 52 | 5 18 |
| 10 | 22 58 58.64 | 2 47.05 | 8 20 24.9 | 16 28.0 | 0.166135 | 19 50 | 5 20 |
| 11 | 23 1 45.69 | 2 46.76 | 8 3 56.9 | 16 31.1 | 0.164343 | 19 49 | 5 21 |
| 12 | 23 4 32.45 | 2 46.48 | 7 47 25.8 | 16 34.2 | 0.162548 | 19 48 | 5 23 |
| 13 | 23 7 18.93 | +2 46.21 | 7 30 51.6 | +16 37.0 | 0.160750 | 19 47 | 5 24 |
| 14 | 23 10 5.14 | 2 45.94 | − 7 14 14.6 | 16 39.6 | 0.158949 | 19 46 | 5 26 |
| 15 | 23 12 51.08 | 2 45.66 | 6 57 35.0 | 16 42.0 | 0.157145 | 19 45 | 5 28 |
| 16 | 23 15 36.74 | 2 45.40 | 6 40 53.0 | 16 44.4 | 0.155337 | 19 43 | 5 29 |
| 17 | 23 18 22.14 | 2 45.14 | 6 24 8.6 | 16 46.5 | 0.153525 | 19 42 | 5 30 |
| 18 | 23 21 7.28 | +2 44.88 | 6 7 22.1 | +16 48.4 | 0.151710 | 19 41 | 5 32 |
| 19 | 23 23 52.16 | 2 44.62 | − 5 50 33.7 | 16 50.1 | 0.149891 | 19 40 | 5 33 |
| 20 | 23 26 36.78 | 2 44.37 | 5 33 43.6 | 16 51.7 | 0.148068 | 19 39 | 5 35 |
| 21 | 23 29 21.15 | 2 44.12 | 5 16 51.9 | 16 53.1 | 0.146242 | 19 37 | 5 36 |
| 22 | 23 32 5.27 | 2 43.86 | 4 59 58.8 | 16 54.2 | 0.144412 | 19 36 | 5 38 |
| 23 | 23 34 49.13 | +2 43.61 | 4 43 4.6 | +16 55.2 | 0.142577 | 19 35 | 5 39 |
| 24 | 23 37 32.74 | 2 43.36 | − 4 26 9.4 | 16 56.0 | 0.140738 | 19 34 | 5 40 |
| 25 | 23 40 16.10 | 2 43.11 | 4 9 13.4 | 16 56.5 | 0.138894 | 19 33 | 5 42 |
| 26 | 23 42 59.21 | 2 42.85 | 3 52 16.9 | 16 56.8 | 0.137046 | 19 31 | 5 43 |
| 27 | 23 45 42.06 | 2 42.60 | 3 35 20.1 | 16 57.0 | 0.135194 | 19 30 | 5 45 |
| 28 | 23 48 24.66 | +2 42.35 | 3 18 23.1 | +16 57.0 | 0.133338 | 19 29 | 5 46 |
| 29 | 23 51 7.01 | 2 42.10 | − 3 1 26.1 | 16 56.8 | 0.131477 | 19 28 | 5 48 |
| 30 | 23 53 49.11 | 2 41.86 | 2 44 29.3 | 16 56.4 | 0.129612 | 19 26 | 5 49 |
| 31 | 23 56 30.97 | 2 41.62 | 2 27 32.9 | 16 55.8 | 0.127743 | 19 25 | 5 51 |
| Juni 1 | 23 59 12.59 | 2 41.38 | 2 10 37.1 | 16 55.1 | 0.125869 | 19 24 | 5 52 |
| 2 | 0 1 53.97 | | 1 53 42.0 | | 0.123992 | 19 23 | 5 54 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|---|
| | | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Juni | 1 | 23 59 12.59 | +2 41.38 | −2 10 37.1 | +16 55.1 | 0.125869 | 19 24 | 5 52 |
| | 2 | 0 1 53.97 | 2 41.15 | 1 53 42.0 | 16 54.2 | 0.123992 | 19 23 | 5 54 |
| | 3 | 0 4 35.12 | 2 40.92 | 1 36 47.8 | 16 53.2 | 0.122111 | 19 21 | 5 55 |
| | 4 | 0 7 16.04 | 2 40.69 | 1 19 54.6 | 16 52.1 | 0.120225 | 19 20 | 5 57 |
| | 5 | 0 9 56.73 | +2 40.48 | 1 3 2.5 | +16 50.7 | 0.118335 | 19 19 | 5 58 |
| | 6 | 0 12 37.21 | 2 40.27 | −0 46 11.8 | 16 49.2 | 0.116441 | 19 18 | 6 0 |
| | 7 | 0 15 17.48 | 2 40.06 | 0 29 22.6 | 16 47.6 | 0.114542 | 19 16 | 6 1 |
| | 8 | 0 17 57.54 | 2 39.86 | −0 12 35.0 | 16 45.9 | 0.112639 | 19 15 | 6 3 |
| | 9 | 0 20 37.40 | 2 39.65 | +0 4 10.9 | 16 44.0 | 0.110731 | 19 14 | 6 4 |
| | 10 | 0 23 17.05 | +2 39.46 | 0 20 54.9 | +16 41.9 | 0.108818 | 19 13 | 6 5 |
| | 11 | 0 25 56.51 | 2 39.26 | +0 37 36.8 | 16 39.6 | 0.106900 | 19 11 | 6 7 |
| | 12 | 0 28 35.77 | 2 39.07 | 0 54 16.4 | 16 37.2 | 0.104977 | 19 10 | 6 8 |
| | 13 | 0 31 14.84 | 2 38.87 | 1 10 53.6 | 16 34.7 | 0.103049 | 19 9 | 6 10 |
| | 14 | 0 33 53.71 | 2 38.68 | 1 27 28.3 | 16 32.0 | 0.101115 | 19 7 | 6 11 |
| | 15 | 0 36 32.39 | +2 38.49 | 1 44 0.3 | +16 29.2 | 0.099175 | 19 6 | 6 13 |
| | 16 | 0 39 10.88 | 2 38.30 | +2 0 29.5 | 16 26.2 | 0.097229 | 19 5 | 6 14 |
| | 17 | 0 41 49.18 | 2 38.10 | 2 16 55.7 | 16 22.9 | 0.095277 | 19 3 | 6 16 |
| | 18 | 0 44 27.28 | 2 37.91 | 2 33 18.6 | 16 19.5 | 0.093318 | 19 2 | 6 17 |
| | 19 | 0 47 5.19 | 2 37.71 | 2 49 38.1 | 16 16.0 | 0.091352 | 19 1 | 6 18 |
| | 20 | 0 49 42.90 | +2 37.51 | 3 5 54.1 | +16 12.2 | 0.089380 | 19 0 | 6 20 |
| | 21 | 0 52 20.41 | 2 37.30 | +3 22 6.3 | 16 8.3 | 0.087401 | 18 58 | 6 21 |
| | 22 | 0 54 57.71 | 2 37.09 | 3 38 14.6 | 16 4.2 | 0.085414 | 18 57 | 6 23 |
| | 23 | 0 57 34.80 | 2 36.87 | 3 54 18.8 | 15 59.9 | 0.083420 | 18 56 | 6 24 |
| | 24 | 1 0 11.67 | 2 36.65 | 4 10 18.7 | 15 55.5 | 0.081418 | 18 54 | 6 25 |
| | 25 | 1 2 48.32 | +2 36.43 | 4 26 14.2 | +15 50.9 | 0.079409 | 18 53 | 6 27 |
| | 26 | 1 5 24.75 | 2 36.19 | +4 42 5.1 | 15 46.0 | 0.077393 | 18 52 | 6 28 |
| | 27 | 1 8 0.94 | 2 35.96 | 4 57 51.1 | 15 41.1 | 0.075369 | 18 50 | 6 30 |
| | 28 | 1 10 36.90 | 2 35.73 | 5 13 32.2 | 15 36.1 | 0.073337 | 18 49 | 6 31 |
| | 29 | 1 13 12.63 | 2 35.49 | 5 29 8.3 | 15 30.8 | 0.071297 | 18 48 | 6 32 |
| | 30 | 1 15 48.12 | +2 35.26 | 5 44 39.1 | +15 25.5 | 0.069250 | 18 46 | 6 34 |
| Juli | 1 | 1 18 23.38 | 2 35.02 | +6 0 4.6 | 15 20.1 | 0.067195 | 18 45 | 6 35 |
| | 2 | 1 20 58.40 | 2 34.78 | 6 15 24.7 | 15 14.5 | 0.065133 | 18 43 | 6 36 |
| | 3 | 1 23 33.18 | 2 34.53 | 6 30 39.2 | 15 8.8 | 0.063063 | 18 42 | 6 38 |
| | 4 | 1 26 7.71 | 2 34.29 | 6 45 48.0 | 15 3.0 | 0.060984 | 18 41 | 6 39 |
| | 5 | 1 28 42.00 | +2 34.05 | 7 0 51.0 | +14 57.2 | 0.058897 | 18 39 | 6 41 |
| | 6 | 1 31 16.05 | 2 33.81 | +7 15 48.2 | 14 51.3 | 0.056802 | 18 38 | 6 42 |
| | 7 | 1 33 49.86 | 2 33.56 | 7 30 39.5 | 14 45.1 | 0.054699 | 18 37 | 6 43 |
| | 8 | 1 36 23.42 | 2 33.31 | 7 45 24.6 | 14 38.9 | 0.052586 | 18 35 | 6 45 |
| | 9 | 1 38 56.73 | 2 33.05 | 8 0 3.5 | 14 32.6 | 0.050464 | 18 34 | 6 46 |
| | 10 | 1 41 29.78 | | 8 14 36.1 | | 0.048333 | 18 32 | 6 47 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Juli 9 | 1 38 56.73 | +2 33.05 | + 8 0 3.5 | +14 32.6 | 0.050464 | 18 34 | 6 46 |
| 10 | 1 41 29.78 | 2 32.79 | 8 14 36.1 | 14 26.2 | 0.048333 | 18 32 | 6 47 |
| 11 | 1 44 2.57 | 2 32.52 | 8 29 2.3 | 14 19.6 | 0.046192 | 18 31 | 6 48 |
| 12 | 1 46 35.09 | 2 32.25 | 8 43 21.9 | 14 13.0 | 0.044042 | 18 30 | 6 50 |
| 13 | 1 49 7.34 | +2 31.97 | 8 57 34.9 | +14 6.2 | 0.041881 | 18 28 | 6 51 |
| 14 | 1 51 39.31 | 2 31.68 | + 9 11 41.1 | 13 59.3 | 0.039709 | 18 27 | 6 52 |
| 15 | 1 54 10.99 | 2 31.37 | 9 25 40.4 | 13 52.3 | 0.037527 | 18 25 | 6 54 |
| 16 | 1 56 42.36 | 2 31.07 | 9 39 32.7 | 13 45.2 | 0.035334 | 18 24 | 6 55 |
| 17 | 1 59 13.43 | 2 30.75 | 9 53 17.9 | 13 38.0 | 0.033129 | 18 23 | 6 56 |
| 18 | 2 1 44.18 | +2 30.42 | 10 6 55.9 | +13 30.5 | 0.030912 | 18 21 | 6 57 |
| 19 | 2 4 14.60 | 2 30.07 | +10 20 26.4 | 13 23.0 | 0.028684 | 18 20 | 6 59 |
| 20 | 2 6 44.67 | 2 29.70 | 10 33 49.4 | 13 15.4 | 0.026443 | 18 18 | 7 0 |
| 21 | 2 9 14.37 | 2 29.33 | 10 47 4.8 | 13 7.6 | 0.024189 | 18 17 | 7 1 |
| 22 | 2 11 43.70 | 2 28.93 | 11 0 12.5 | 12 59.7 | 0.021923 | 18 15 | 7 2 |
| 23 | 2 14 12.63 | +2 28.52 | 11 13 12.2 | +12 51.8 | 0.019644 | 18 14 | 7 4 |
| 24 | 2 16 41.15 | 2 28.09 | +11 26 4.0 | 12 43.7 | 0.017352 | 18 12 | 7 5 |
| 25 | 2 19 9.24 | 2 27.65 | 11 38 47.7 | 12 35.5 | 0.015047 | 18 11 | 7 6 |
| 26 | 2 21 36.89 | 2 27.20 | 11 51 23.2 | 12 27.3 | 0.012729 | 18 10 | 7 7 |
| 27 | 2 24 4.09 | 2 26.73 | 12 3 50.5 | 12 19.0 | 0.010398 | 18 8 | 7 8 |
| 28 | 2 26 30.82 | +2 26.25 | 12 16 9.5 | +12 10.6 | 0.008054 | 18 7 | 7 10 |
| 29 | 2 28 57.07 | 2 25.76 | +12 28 20.1 | 12 2.2 | 0.005697 | 18 5 | 7 11 |
| 30 | 2 31 22.83 | 2 25.26 | 12 40 22.3 | 11 53.8 | 0.003326 | 18 4 | 7 12 |
| 31 | 2 33 48.09 | 2 24.74 | 12 52 16.1 | 11 45.3 | 0.000942 | 18 2 | 7 13 |
| Aug. 1 | 2 36 12.83 | 2 24.21 | 13 4 1.4 | 11 36.8 | 9.998544 | 18 0 | 7 14 |
| 2 | 2 38 37.04 | +2 23.66 | 13 15 38.2 | +11 28.3 | 9.996133 | 17 59 | 7 15 |
| 3 | 2 41 0.70 | 2 23.11 | +13 27 6.5 | 11 19.7 | 9.993707 | 17 57 | 7 17 |
| 4 | 2 43 23.81 | 2 22.54 | 13 38 26.2 | 11 11.1 | 9.991267 | 17 56 | 7 18 |
| 5 | 2 45 46.35 | 2 21.95 | 13 49 37.3 | 11 2.4 | 9.988813 | 17 54 | 7 19 |
| 6 | 2 48 8.30 | 2 21.35 | 14 0 39.7 | 10 53.8 | 9.986344 | 17 53 | 7 20 |
| 7 | 2 50 29.65 | +2 20.73 | 14 11 33.5 | +10 45.2 | 9.983860 | 17 51 | 7 21 |
| 8 | 2 52 50.38 | 2 20.08 | +14 22 18.7 | 10 36.5 | 9.981361 | 17 49 | 7 22 |
| 9 | 2 55 10.46 | 2 19.42 | 14 32 55.2 | 10 27.8 | 9.978846 | 17 48 | 7 23 |
| 10 | 2 57 29.88 | 2 18.75 | 14 43 23.0 | 10 19.0 | 9.976315 | 17 46 | 7 24 |
| 11 | 2 59 48.63 | 2 18.05 | 14 53 42.0 | 10 10.2 | 9.973767 | 17 45 | 7 25 |
| 12 | 3 2 6.68 | +2 17.32 | 15 3 52.2 | +10 1.5 | 9.971203 | 17 43 | 7 26 |
| 13 | 3 4 24.00 | 2 16.57 | +15 13 53.7 | 9 52.6 | 9.968622 | 17 41 | 7 27 |
| 14 | 3 6 40.57 | 2 15.80 | 15 23 46.3 | 9 43.8 | 9.966024 | 17 40 | 7 28 |
| 15 | 3 8 56.37 | 2 14.99 | 15 33 30.1 | 9 34.9 | 9.963408 | 17 38 | 7 29 |
| 16 | 3 11 11.36 | 2 14.15 | 15 43 5.0 | 9 26.0 | 9.960775 | 17 36 | 7 30 |
| 17 | 3 13 25.51 | | 15 52 31.0 | | 9.958123 | 17 35 | 7 31 |

## Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ' " | ' " | | h m | h m |
| Aug. 16 | 3 11 11.36 | +2 14.15 | +15 43 5.0 | +9 26.0 | 9.960775 | 17 36 | 7 30 |
| 17 | 3 13 25.51 | 2 13.28 | 15 52 31.0 | 9 17.0 | 9.958123 | 17 35 | 7 31 |
| 18 | 3 15 38.79 | 2 12.38 | 16 1 48.0 | 9 8.0 | 9.955453 | 17 33 | 7 32 |
| 19 | 3 17 51.17 | 2 11.44 | 16 10 56.0 | 8 59.1 | 9.952764 | 17 31 | 7 33 |
| 20 | 3 20 2.61 | +2 10.48 | 16 19 55.1 | +8 50.1 | 9.950057 | 17 29 | 7 34 |
| 21 | 3 22 13.09 | 2 9.48 | +16 28 45.2 | 8 41.1 | 9.947331 | 17 28 | 7 35 |
| 22 | 3 24 22.57 | 2 8.44 | 16 37 26.3 | 8 32.2 | 9.944587 | 17 26 | 7 36 |
| 23 | 3 26 31.01 | 2 7.38 | 16 45 58.5 | 8 23.3 | 9.941824 | 17 24 | 7 37 |
| 24 | 3 28 38.39 | 2 6.28 | 16 54 21.8 | 8 14.4 | 9.939042 | 17 22 | 7 38 |
| 25 | 3 30 44.67 | +2 5.15 | 17 2 36.2 | +8 5.5 | 9.936242 | 17 20 | 7 38 |
| 26 | 3 32 49.82 | 2 3.98 | +17 10 41.7 | 7 56.7 | 9.933424 | 17 19 | 7 39 |
| 27 | 3 34 53.80 | 2 2.79 | 17 18 38.4 | 7 48.1 | 9.930587 | 17 17 | 7 40 |
| 28 | 3 36 56.59 | 2 1.58 | 17 26 26.5 | 7 39.5 | 9.927732 | 17 15 | 7 41 |
| 29 | 3 38 58.17 | 2 0.33 | 17 34 6.0 | 7 31.0 | 9.924859 | 17 13 | 7 42 |
| 30 | 3 40 58.50 | +1 59.05 | 17 41 37.0 | +7 22.5 | 9.921967 | 17 11 | 7 43 |
| 31 | 3 42 57.55 | 1 57.73 | +17 48 59.5 | 7 14.2 | 9.919057 | 17 9 | 7 43 |
| Sept. 1 | 3 44 55.28 | 1 56.39 | 17 56 13.7 | 7 5.9 | 9.916129 | 17 7 | 7 44 |
| 2 | 3 46 51.67 | 1 55.00 | 18 3 19.6 | 6 57.7 | 9.913183 | 17 5 | 7 45 |
| 3 | 3 48 46.67 | 1 53.57 | 18 10 17.3 | 6 49.6 | 9.910219 | 17 3 | 7 46 |
| 4 | 3 50 40.24 | +1 52.12 | 18 17 6.9 | +6 41.5 | 9.907236 | 17 1 | 7 46 |
| 5 | 3 52 32.36 | 1 50.64 | +18 23 48.4 | 6 33.6 | 9.904235 | 16 59 | 7 47 |
| 6 | 3 54 23.00 | 1 49.11 | 18 30 22.0 | 6 25.8 | 9.901215 | 16 57 | 7 48 |
| 7 | 3 56 12.11 | 1 47.53 | 18 36 47.8 | 6 18.1 | 9.898177 | 16 55 | 7 48 |
| 8 | 3 57 59.64 | 1 45.90 | 18 43 5.9 | 6 10.4 | 9.895120 | 16 52 | 7 49 |
| 9 | 3 59 45.54 | +1 44.24 | 18 49 16.3 | +6 2.9 | 9.892045 | 16 50 | 7 50 |
| 10 | 4 1 29.78 | 1 42.54 | +18 55 19.2 | 5 55.4 | 9.888951 | 16 48 | 7 51 |
| 11 | 4 3 12.32 | 1 40.78 | 19 1 14.6 | 5 48.0 | 9.885839 | 16 46 | 7 51 |
| 12 | 4 4 53.10 | 1 38.97 | 19 7 2.6 | 5 40.6 | 9.882708 | 16 44 | 7 52 |
| 13 | 4 6 32.07 | 1 37.09 | 19 12 43.2 | 5 33.2 | 9.879559 | 16 41 | 7 52 |
| 14 | 4 8 9.16 | +1 35.16 | 19 18 16.4 | +5 26.1 | 9.876392 | 16 39 | 7 53 |
| 15 | 4 9 44.32 | 1 33.18 | +19 23 42.5 | 5 19.1 | 9.873208 | 16 37 | 7 54 |
| 16 | 4 11 17.50 | 1 31.15 | 19 29 1.6 | 5 12.1 | 9.870006 | 16 34 | 7 54 |
| 17 | 4 12 48.65 | 1 29.05 | 19 34 13.7 | 5 5.2 | 9.866787 | 16 32 | 7 55 |
| 18 | 4 14 17.70 | 1 26.89 | 19 39 18.9 | 4 58.4 | 9.863552 | 16 29 | 7 55 |
| 19 | 4 15 44.59 | +1 24.66 | 19 44 17.3 | +4 51.6 | 9.860301 | 16 27 | 7 56 |
| 20 | 4 17 9.25 | 1 22.39 | +19 49 8.9 | 4 45.1 | 9.857035 | 16 24 | 7 57 |
| 21 | 4 18 31.64 | 1 20.07 | 19 53 54.0 | 4 38.7 | 9.853756 | 16 22 | 7 57 |
| 22 | 4 19 51.71 | 1 17.68 | 19 58 32.7 | 4 32.3 | 9.850464 | 16 19 | 7 58 |
| 23 | 4 21 9.39 | 1 15.24 | 20 3 5.0 | 4 26.2 | 9.847160 | 16 16 | 7 58 |
| 24 | 4 22 24.63 | | 20 7 31.2 | | 9.843844 | 16 14 | 7 59 |

## Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Sept. 23 | 4 21 9.39 | +1 15.24 | +20 3 5.0 | +4 26.2 | 9.847160 | 16 16 | 7 58 |
| 24 | 4 22 24.63 | 1 12.74 | 20 7 31.2 | 4 20.2 | 9.843844 | 16 14 | 7 59 |
| 25 | 4 23 37.37 | 1 10.19 | 20 11 51.4 | 4 14.4 | 9.840519 | 16 11 | 7 59 |
| 26 | 4 24 47.56 | 1 7.59 | 20 16 5.8 | 4 8.6 | 9.837185 | 16 8 | 8 0 |
| 27 | 4 25 55.15 | +1 4.95 | 20 20 14.4 | +4 3.0 | 9.833844 | 16 5 | 8 0 |
| 28 | 4 27 0.10 | 1 2.24 | +20 24 17.4 | 3 57.4 | 9.830496 | 16 3 | 8 1 |
| 29 | 4 28 2.34 | 0 59.48 | 20 28 14.8 | 3 52.1 | 9.827142 | 16 0 | 8 1 |
| 30 | 4 29 1.82 | 0 56.67 | 20 32 6.9 | 3 46.9 | 9.823784 | 15 57 | 8 1 |
| Okt. 1 | 4 29 58.49 | 0 53.80 | 20 35 53.8 | 3 41.8 | 9.820424 | 15 54 | 8 2 |
| 2 | 4 30 52.29 | +0 50.87 | 20 39 35.6 | +3 36.8 | 9.817063 | 15 51 | 8 2 |
| 3 | 4 31 43.16 | 0 47.89 | +20 43 12.4 | 3 31.9 | 9.813701 | 15 48 | 8 3 |
| 4 | 4 32 31.05 | 0 44.85 | 20 46 44.3 | 3 27.1 | 9.810341 | 15 44 | 8 3 |
| 5 | 4 33 15.90 | 0 41.76 | 20 50 11.4 | 3 22.3 | 9.806984 | 15 41 | 8 4 |
| 6 | 4 33 57.66 | 0 38.60 | 20 53 33.7 | 3 17.6 | 9.803632 | 15 38 | 8 4 |
| 7 | 4 34 36.26 | +0 35.40 | 20 56 51.3 | +3 13.0 | 9.800286 | 15 35 | 8 4 |
| 8 | 4 35 11.66 | 0 32.13 | +21 0 4.3 | 3 8.4 | 9.796948 | 15 31 | 8 5 |
| 9 | 4 35 43.79 | 0 28.80 | 21 3 12.7 | 3 3.9 | 9.793621 | 15 28 | 8 5 |
| 10 | 4 36 12.59 | 0 25.40 | 21 6 16.6 | 2 59.3 | 9.790306 | 15 24 | 8 5 |
| 11 | 4 36 37.99 | 0 21.95 | 21 9 15.9 | 2 54.6 | 9.787005 | 15 21 | 8 6 |
| 12 | 4 36 59.94 | +0 18.43 | 21 12 10.5 | +2 50.0 | 9.783722 | 15 17 | 8 6 |
| 13 | 4 37 18.37 | 0 14.86 | +21 15 0.5 | 2 45.4 | 9.780458 | 15 14 | 8 6 |
| 14 | 4 37 33.23 | 0 11.22 | 21 17 45.9 | 2 40.7 | 9.777217 | 15 10 | 8 7 |
| 15 | 4 37 44.45 | 0 7.54 | 21 20 26.6 | 2 36.0 | 9.774001 | 15 6 | 8 7 |
| 16 | 4 37 51.99 | 0 3.80 | 21 23 2.6 | 2 31.3 | 9.770814 | 15 2 | 8 7 |
| 17 | 4 37 55.79 | +0 0.03 | 21 25 33.9 | +2 26.5 | 9.767659 | 14 59 | 8 8 |
| 18 | 4 37 55.82 | −0 3.77 | +21 28 0.4 | 2 21.6 | 9.764540 | 14 55 | 8 8 |
| 19 | 4 37 52.05 | 0 7.60 | 21 30 22.0 | 2 16.6 | 9.761461 | 14 51 | 8 8 |
| 20 | 4 37 44.45 | 0 11.46 | 21 32 38.6 | 2 11.7 | 9.758425 | 14 47 | 8 9 |
| 21 | 4 37 32.99 | 0 15.33 | 21 34 50.3 | 2 6.6 | 9.755437 | 14 42 | 8 9 |
| 22 | 4 37 17.66 | −0 19.21 | 21 36 56.9 | +2 1.3 | 9.752501 | 14 38 | 8 9 |
| 23 | 4 36 58.45 | 0 23.08 | +21 38 58.2 | 1 56.0 | 9.749621 | 14 34 | 8 9 |
| 24 | 4 36 35.37 | 0 26.94 | 21 40 54.2 | 1 50.6 | 9.746801 | 14 30 | 8 10 |
| 25 | 4 36 8.43 | 0 30.78 | 21 42 44.8 | 1 45.1 | 9.744045 | 14 25 | 8 10 |
| 26 | 4 35 37.65 | 0 34.60 | 21 44 29.9 | 1 39.4 | 9.741359 | 14 21 | 8 10 |
| 27 | 4 35 3.05 | −0 38.39 | 21 46 9.3 | +1 33.6 | 9.738747 | 14 16 | 8 10 |
| 28 | 4 34 24.66 | 0 42.15 | +21 47 42.9 | 1 27.6 | 9.736212 | 14 12 | 8 10 |
| 29 | 4 33 42.51 | 0 45.86 | 21 49 10.5 | 1 21.4 | 9.733759 | 14 7 | 8 11 |
| 30 | 4 32 56.65 | 0 49.51 | 21 50 31.9 | 1 15.1 | 9.731393 | 14 2 | 8 11 |
| 31 | 4 32 7.14 | 0 53.08 | 21 51 47.0 | 1 8.6 | 9.729119 | 13 58 | 8 11 |
| Nov. 1 | 4 31 14.06 | | 21 52 55.6 | | 9.726941 | 13 53 | 8 11 |

Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | AR. h m s | Diff. m s | Dekl. ° ′ ″ | Diff. ′ ″ | Log. Δ | Östl. Stunden-Winkel h m | Halber Tagbogen h m |
|---|---|---|---|---|---|---|---|
| Okt. 31 | 4 32 7.14 | −0 53.08 | +21 51 47.0 | +1 8.6 | 9.729119 | 13 58 | 8 11 |
| Nov. 1 | 4 31 14.06 | 0 56.59 | 21 52 55.6 | 1 1.9 | 9.726941 | 13 53 | 8 11 |
| 2 | 4 30 17.47 | 1 0.02 | 21 53 57.5 | 0 55.0 | 9.724863 | 13 48 | 8 11 |
| 3 | 4 29 17.45 | 1 3.36 | 21 54 52.5 | 0 47.9 | 9.722890 | 13 43 | 8 11 |
| 4 | 4 28 14.09 | −1 6.61 | 21 55 40.4 | +0 40.6 | 9.721026 | 13 38 | 8 11 |
| 5 | 4 27 7.48 | 1 9.74 | +21 56 21.0 | 0 33.1 | 9.719276 | 13 33 | 8 11 |
| 6 | 4 25 57.74 | 1 12.77 | 21 56 54.1 | 0 25.5 | 9.717643 | 13 28 | 8 11 |
| 7 | 4 24 44.97 | 1 15.68 | 21 57 19.6 | 0 17.7 | 9.716132 | 13 23 | 8 11 |
| 8 | 4 23 29.29 | 1 18.47 | 21 57 37.3 | 0 9.7 | 9.714747 | 13 17 | 8 12 |
| 9 | 4 22 10.82 | −1 21.11 | 21 57 47.0 | +0 1.5 | 9.713492 | 13 12 | 8 12 |
| 10 | 4 20 49.71 | 1 23.60 | +21 57 48.5 | −0 6.7 | 9.712371 | 13 7 | 8 12 |
| 11 | 4 19 26.11 | 1 25.93 | 21 57 41.8 | 0 14.9 | 9.711388 | 13 2 | 8 12 |
| 12 | 4 18 0.18 | 1 28.08 | 21 57 26.9 | 0 23.2 | 9.710548 | 12 56 | 8 12 |
| 13 | 4 16 32.10 | 1 30.05 | 21 57 3.7 | 0 31.5 | 9.709853 | 12 51 | 8 11 |
| 14 | 4 15 2.05 | −1 31.83 | 21 56 32.2 | −0 39.7 | 9.709307 | 12 45 | 8 11 |
| 15 | 4 13 30.22 | 1 33.41 | +21 55 52.5 | 0 47.8 | 9.708914 | 12 40 | 8 11 |
| 16 | 4 11 56.81 | 1 34.77 | 21 55 4.7 | 0 55.8 | 9.708676 | 12 34 | 8 11 |
| 17 | 4 10 22.04 | 1 35.91 | 21 54 8.9 | 1 3.5 | 9.708596 | 12 29 | 8 11 |
| 18 | 4 8 46.13 | 1 36.81 | 21 53 5.4 | 1 10.9 | 9.708675 | 12 23 | 8 11 |
| 19 | 4 7 9.32 | −1 37.49 | 21 51 54.5 | −1 18.1 | 9.708916 | 12 18 | 8 11 |
| 20 | 4 5 31.83 | 1 37.93 | +21 50 36.4 | 1 24.8 | 9.709320 | 12 12 | 8 11 |
| 21 | 4 3 53.90 | 1 38.13 | 21 49 11.6 | 1 31.1 | 9.709887 | 12 7 | 8 11 |
| 22 | 4 2 15.77 | 1 38.11 | 21 47 40.5 | 1 37.1 | 9.710618 | 12 1 | 8 10 |
| 23 | 4 0 37.66 | 1 37.85 | 21 46 3.4 | 1 42.5 | 9.711513 | 11 55 | 8 10 |
| 24 | 3 58 59.81 | −1 37.35 | 21 44 20.9 | −1 47.5 | 9.712571 | 11 50 | 8 10 |
| 25 | 3 57 22.46 | 1 36.63 | +21 42 33.4 | 1 52.0 | 9.713792 | 11 44 | 8 10 |
| 26 | 3 55 45.83 | 1 35.69 | 21 40 41.4 | 1 55.9 | 9.715173 | 11 39 | 8 9 |
| 27 | 3 54 10.14 | 1 34.54 | 21 38 45.5 | 1 59.1 | 9.716713 | 11 33 | 8 9 |
| 28 | 3 52 35.60 | 1 33.18 | 21 36 46.4 | 2 1.8 | 9.718410 | 11 28 | 8 9 |
| 29 | 3 51 2.42 | −1 31.63 | 21 34 44.6 | −2 3.9 | 9.720261 | 11 22 | 8 9 |
| 30 | 3 49 30.79 | 1 29.89 | +21 32 40.7 | 2 5.4 | 9.722264 | 11 17 | 8 9 |
| Dez. 1 | 3 48 0.90 | 1 27.96 | 21 30 35.3 | 2 6.3 | 9.724415 | 11 11 | 8 8 |
| 2 | 3 46 32.94 | 1 25.87 | 21 28 29.0 | 2 6.5 | 9.726711 | 11 6 | 8 8 |
| 3 | 3 45 7.07 | 1 23.64 | 21 26 22.5 | 2 6.1 | 9.729147 | 11 0 | 8 8 |
| 4 | 3 43 43.43 | −1 21.27 | 21 24 16.4 | −2 5.2 | 9.731721 | 10 55 | 8 8 |
| 5 | 3 42 22.16 | 1 18.75 | +21 22 11.2 | 2 3.8 | 9.734427 | 10 50 | 8 7 |
| 6 | 3 41 3.41 | 1 16.12 | 21 20 7.4 | 2 1.7 | 9.737262 | 10 45 | 8 7 |
| 7 | 3 39 47.29 | 1 13.38 | 21 18 5.7 | 1 59.1 | 9.740222 | 10 39 | 8 7 |
| 8 | 3 38 33.91 | 1 10.53 | 21 16 6.6 | 1 55.9 | 9.743303 | 10 34 | 8 7 |
| 9 | 3 37 23.38 | | 21 14 10.7 | | 9.746500 | 10 29 | 8 6 |

## Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Dez. 8 | 3 38 33.91 | −1 10.53 | +21 16 6.6 | −1 55.9 | 9.743303 | 10 34 | 8 7 |
| 9 | 3 37 23.38 | 1 7.58 | 21 14 10.7 | 1 52.2 | 9.746500 | 10 29 | 8 6 |
| 10 | 3 36 15.80 | 1 4.55 | 21 12 18.5 | 1 48.0 | 9.749808 | 10 24 | 8 6 |
| 11 | 3 35 11.25 | 1 1.43 | 21 10 30.5 | 1 43.2 | 9.753224 | 10 19 | 8 6 |
| 12 | 3 34 9.82 | −0 58.24 | 21 8 47.3 | −1 37.9 | 9.756743 | 10 14 | 8 6 |
| 13 | 3 33 11.58 | 0 54.97 | +21 7 9.4 | 1 32.1 | 9.760360 | 10 9 | 8 6 |
| 14 | 3 32 16.61 | 0 51.64 | 21 5 37.3 | 1 25.9 | 9.764071 | 10 4 | 8 5 |
| 15 | 3 31 24.97 | 0 48.26 | 21 4 11.4 | 1 19.2 | 9.767872 | 9 59 | 8 5 |
| 16 | 3 30 36.71 | 0 44.84 | 21 2 52.2 | 1 12.1 | 9.771757 | 9 55 | 8 5 |
| 17 | 3 29 51.87 | −0 41.38 | 21 1 40.1 | −1 4.7 | 9.775722 | 9 50 | 8 5 |
| 18 | 3 29 10.49 | 0 37.88 | +21 0 35.4 | 0 56.9 | 9.779763 | 9 45 | 8 5 |
| 19 | 3 28 32.61 | 0 34.37 | 20 59 38.5 | 0 48.8 | 9.783874 | 9 41 | 8 5 |
| 20 | 3 27 58.24 | 0 30.86 | 20 58 49.7 | 0 40.4 | 9.788051 | 9 36 | 8 5 |
| 21 | 3 27 27.38 | 0 27.34 | 20 58 9.3 | 0 31.9 | 9.792289 | 9 32 | 8 4 |
| 22 | 3 27 0.04 | −0 23.81 | 20 57 37.4 | −0 23.1 | 9.796583 | 9 27 | 8 4 |
| 23 | 3 26 36.23 | 0 20.30 | +20 57 14.3 | 0 14.1 | 9.800929 | 9 23 | 8 4 |
| 24 | 3 26 15.93 | 0 16.81 | 20 57 0.2 | −0 5.1 | 9.805324 | 9 19 | 8 4 |
| 25 | 3 25 59.12 | 0 13.33 | 20 56 55.1 | +0 4.0 | 9.809763 | 9 15 | 8 4 |
| 26 | 3 25 45.79 | 0 9.88 | 20 56 59.1 | 0 13.3 | 9.814241 | 9 10 | 8 4 |
| 27 | 3 25 35.91 | −0 6.47 | 20 57 12.4 | +0 22.5 | 9.818755 | 9 6 | 8 4 |
| 28 | 3 25 29.44 | −0 3.09 | +20 57 34.9 | 0 31.6 | 9.823301 | 9 2 | 8 4 |
| 29 | 3 25 26.35 | +0 0.25 | 20 58 6.5 | 0 40.7 | 9.827875 | 8 58 | 8 4 |
| 30 | 3 25 26.60 | 0 3.54 | 20 58 47.2 | 0 49.8 | 9.832473 | 8 54 | 8 5 |
| 31 | 3 25 30.14 | 0 6.78 | 20 59 37.0 | 0 58.7 | 9.837092 | 8 50 | 8 5 |
| 32 | 3 25 36.92 | +0 9.98 | 21 0 35.7 | +1 7.5 | 9.841730 | 8 47 | 8 5 |
| 33 | 3 25 46.90 | | +21 1 43.2 | | 9.846384 | 8 43 | 8 5 |

## Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Jan. 1 | 14 30 16.26 | +1 11.88 | −13 37 12.8 | −5 31.0 | 0.767849 | 19 50 | 4 50 |
| 3 | 14 31 28.14 | 1 10.14 | 13 42 43.8 | 5 20.6 | 0.765723 | 19 44 | 4 50 |
| 5 | 14 32 38.28 | 1 8.35 | 13 48 4.4 | 5 10.0 | 0.763554 | 19 37 | 4 49 |
| 7 | 14 33 46.63 | 1 6.51 | 13 53 14.4 | 4 59.2 | 0.761344 | 19 30 | 4 49 |
| 9 | 14 34 53.14 | +1 4.62 | 13 58 13.6 | −4 48.4 | 0.759091 | 19 23 | 4 48 |
| 11 | 14 35 57.76 | 1 2.67 | −14 3 2.0 | 4 37.4 | 0.756797 | 19 17 | 4 48 |
| 13 | 14 37 0.43 | 1 0.67 | 14 7 39.4 | 4 26.2 | 0.754465 | 19 10 | 4 47 |
| 15 | 14 38 1.10 | 0 58.61 | 14 12 5.6 | 4 15.0 | 0.752096 | 19 3 | 4 47 |
| 17 | 14 38 59.71 | 0 56.49 | 14 16 20.6 | 4 3.6 | 0.749691 | 18 56 | 4 47 |
| 19 | 14 39 56.20 | +0 54.31 | 14 20 24.2 | −3 52.0 | 0.747252 | 18 49 | 4 46 |
| 21 | 14 40 50.51 | 0 52.07 | −14 24 16.2 | 3 40.3 | 0.744780 | 18 42 | 4 46 |
| 23 | 14 41 42.58 | 0 49.76 | 14 27 56.5 | 3 28.4 | 0.742277 | 18 35 | 4 45 |
| 25 | 14 42 32.34 | 0 47.39 | 14 31 24.9 | 3 16.4 | 0.739745 | 18 28 | 4 45 |
| 27 | 14 43 19.73 | 0 44.95 | 14 34 41.3 | 3 4.2 | 0.737187 | 18 21 | 4 45 |
| 29 | 14 44 4.68 | +0 42.47 | 14 37 45.5 | −2 51.8 | 0.734604 | 18 14 | 4 44 |
| 31 | 14 44 47.15 | 0 39.92 | −14 40 37.3 | 2 39.4 | 0.731998 | 18 7 | 4 44 |
| Febr. 2 | 14 45 27.07 | 0 37.33 | 14 43 16.7 | 2 26.8 | 0.729372 | 17 59 | 4 44 |
| 4 | 14 46 4.40 | 0 34.69 | 14 45 43.5 | 2 14.2 | 0.726730 | 17 52 | 4 44 |
| 6 | 14 46 39.09 | 0 32.02 | 14 47 57.7 | 2 1.6 | 0.724073 | 17 45 | 4 43 |
| 8 | 14 47 11.11 | +0 29.30 | 14 49 59.3 | −1 48.8 | 0.721405 | 17 37 | 4 43 |
| 10 | 14 47 40.41 | 0 26.54 | −14 51 48.1 | 1 36.1 | 0.718728 | 17 30 | 4 43 |
| 12 | 14 48 6.95 | 0 23.76 | 14 53 24.2 | 1 23.2 | 0.716045 | 17 23 | 4 43 |
| 14 | 14 48 30.71 | 0 20.93 | 14 54 47.4 | 1 10.4 | 0.713358 | 17 15 | 4 43 |
| 16 | 14 48 51.64 | 0 18.07 | 14 55 57.8 | 0 57.4 | 0.710671 | 17 8 | 4 43 |
| 18 | 14 49 9.71 | +0 15.16 | 14 56 55.2 | −0 44.4 | 0.707987 | 17 0 | 4 43 |
| 20 | 14 49 24.87 | 0 12.22 | −14 57 39.6 | 0 31.2 | 0.705308 | 16 52 | 4 43 |
| 22 | 14 49 37.09 | 0 9.26 | 14 58 10.8 | 0 18.0 | 0.702639 | 16 45 | 4 42 |
| 24 | 14 49 46.35 | 0 6.28 | 14 58 28.8 | −0 4.8 | 0.699982 | 16 37 | 4 42 |
| 26 | 14 49 52.63 | 0 3.28 | 14 58 33.6 | +0 8.5 | 0.697341 | 16 29 | 4 42 |
| 28 | 14 49 55.91 | +0 0.27 | 14 58 25.1 | +0 21.7 | 0.694721 | 16 21 | 4 42 |
| März 2 | 14 49 56.18 | −0 2.74 | −14 58 3.4 | 0 34.7 | 0.692125 | 16 13 | 4 42 |
| 4 | 14 49 53.44 | 0 5.74 | 14 57 28.7 | 0 47.8 | 0.689558 | 16 6 | 4 43 |
| 6 | 14 49 47.70 | 0 8.71 | 14 56 40.9 | 1 0.7 | 0.687023 | 15 58 | 4 43 |
| 8 | 14 49 38.99 | 0 11.66 | 14 55 40.2 | 1 13.4 | 0.684525 | 15 50 | 4 43 |
| 10 | 14 49 27.33 | −0 14.59 | 14 54 26.8 | +1 26.1 | 0.682068 | 15 41 | 4 43 |
| 12 | 14 49 12.74 | 0 17.48 | −14 53 0.7 | 1 38.5 | 0.679655 | 15 33 | 4 43 |
| 14 | 14 48 55.26 | 0 20.34 | 14 51 22.2 | 1 50.9 | 0.677291 | 15 25 | 4 43 |
| 16 | 14 48 34.92 | 0 23.17 | 14 49 31.3 | 2 3.0 | 0.674979 | 15 17 | 4 43 |
| 18 | 14 48 11.75 | 0 25.94 | 14 47 28.3 | 2 15.1 | 0.672723 | 15 9 | 4 44 |
| 20 | 14 47 45.81 | | 14 45 13.2 | | 0.670528 | 15 0 | 4 44 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| März 18 | 14 48 11.75 | −0 25.94 | −14 47 28.3 | +2 15.1 | 0.672723 | 15 9 | 4 44 |
| 20 | 14 47 45.81 | 0 28.67 | 14 45 13.2 | 2 26.9 | 0.670528 | 15 0 | 4 44 |
| 22 | 14 47 17.14 | 0 31.34 | 14 42 46.3 | 2 38.5 | 0.668397 | 14 52 | 4 44 |
| 24 | 14 46 45.80 | 0 33.94 | 14 40 7.8 | 2 49.8 | 0.666336 | 14 44 | 4 44 |
| 26 | 14 46 11.86 | −0 36.45 | 14 37 18.0 | +3 0.7 | 0.664348 | 14 35 | 4 45 |
| 28 | 14 45 35.41 | 0 38.88 | −14 34 17.3 | 3 11.2 | 0.662438 | 14 27 | 4 45 |
| 30 | 14 44 56.53 | 0 41.20 | 14 31 6.1 | 3 21.3 | 0.660609 | 14 18 | 4 45 |
| April 1 | 14 44 15.33 | 0 43.42 | 14 27 44.8 | 3 31.0 | 0.658865 | 14 10 | 4 45 |
| 3 | 14 43 31.91 | 0 45.50 | 14 24 13.8 | 3 40.1 | 0.657211 | 14 1 | 4 46 |
| 5 | 14 42 46.41 | −0 47.47 | 14 20 33.7 | +3 48.7 | 0.655651 | 13 52 | 4 46 |
| 7 | 14 41 58.94 | 0 49.31 | −14 16 45.0 | 3 56.7 | 0.654187 | 13 44 | 4 47 |
| 9 | 14 41 9.63 | 0 51.01 | 14 12 48.3 | 4 4.2 | 0.652823 | 13 35 | 4 47 |
| 11 | 14 40 18.62 | 0 52.57 | 14 8 44.1 | 4 11.0 | 0.651561 | 13 26 | 4 47 |
| 13 | 14 39 26.05 | 0 54.01 | 14 4 33.1 | 4 17.4 | 0.650403 | 13 17 | 4 48 |
| 15 | 14 38 32.04 | −0 55.30 | 14 0 15.7 | +4 23.0 | 0.649353 | 13 9 | 4 48 |
| 17 | 14 37 36.74 | 0 56.45 | −13 55 52.7 | 4 28.1 | 0.648412 | 13 0 | 4 49 |
| 19 | 14 36 40.29 | 0 57.44 | 13 51 24.6 | 4 32.5 | 0.647584 | 12 51 | 4 49 |
| 21 | 14 35 42.85 | 0 58.27 | 13 46 52.1 | 4 36.2 | 0.646869 | 12 42 | 4 49 |
| 23 | 14 34 44.58 | 0 58.95 | 13 42 15.9 | 4 39.0 | 0.646270 | 12 33 | 4 50 |
| 25 | 14 33 45.63 | −0 59.46 | 13 37 36.9 | +4 41.2 | 0.645787 | 12 24 | 4 50 |
| 27 | 14 32 46.17 | 0 59.78 | −13 32 55.7 | 4 42.4 | 0.645423 | 12 16 | 4 51 |
| 29 | 14 31 46.39 | 0 59.94 | 13 28 13.3 | 4 42.9 | 0.645179 | 12 7 | 4 51 |
| Mai 1 | 14 30 46.45 | 0 59.91 | 13 23 30.4 | 4 42.4 | 0.645055 | 11 58 | 4 52 |
| 3 | 14 29 46.54 | 0 59.71 | 13 18 48.0 | 4 41.1 | 0.645050 | 11 49 | 4 52 |
| 5 | 14 28 46.83 | −0 59.36 | 13 14 6.9 | +4 38.9 | 0.645165 | 11 40 | 4 53 |
| 7 | 14 27 47.47 | 0 58.83 | −13 9 28.0 | 4 36.0 | 0.645398 | 11 31 | 4 53 |
| 9 | 14 26 48.64 | 0 58.14 | 13 4 52.0 | 4 32.3 | 0.645749 | 11 22 | 4 53 |
| 11 | 14 25 50.50 | 0 57.32 | 13 0 19.7 | 4 27.9 | 0.646215 | 11 14 | 4 54 |
| 13 | 14 24 53.18 | 0 56.34 | 12 55 51.8 | 4 22.8 | 0.646796 | 11 5 | 4 54 |
| 15 | 14 23 56.84 | −0 55.23 | 12 51 29.0 | +4 16.9 | 0.647489 | 10 56 | 4 55 |
| 17 | 14 23 1.61 | 0 53.97 | −12 47 12.1 | 4 10.4 | 0.648293 | 10 47 | 4 55 |
| 19 | 14 22 7.64 | 0 52.58 | 12 43 1.7 | 4 3.0 | 0.649206 | 10 38 | 4 55 |
| 21 | 14 21 15.06 | 0 51.05 | 12 38 58.7 | 3 55.0 | 0.650226 | 10 29 | 4 56 |
| 23 | 14 20 24.01 | 0 49.39 | 12 35 3.7 | 3 46.3 | 0.651350 | 10 21 | 4 56 |
| 25 | 14 19 34.62 | −0 47.61 | 12 31 17.4 | +3 36.9 | 0.652575 | 10 12 | 4 57 |
| 27 | 14 18 47.01 | 0 45.70 | −12 27 40.5 | 3 26.8 | 0.653898 | 10 3 | 4 57 |
| 29 | 14 18 1.31 | 0 43.67 | 12 24 13.7 | 3 16.2 | 0.655317 | 9 55 | 4 57 |
| 31 | 14 17 17.64 | 0 41.54 | 12 20 57.5 | 3 4.9 | 0.656828 | 9 46 | 4 58 |
| Juni 2 | 14 16 36.10 | 0 39.33 | 12 17 52.6 | 2 53.1 | 0.658426 | 9 37 | 4 58 |
| 4 | 14 15 56.77 | | 12 14 59.5 | | 0.660109 | 9 29 | 4 58 |

## Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Juni 2 | 14 16 36.10 | −0 39.33 | −12 17 52.6 | +2 53.1 | 0.658426 | 9 37 | 4 58 |
| 4 | 14 15 56.77 | 0 37.03 | 12 14 59.5 | 2 40.9 | 0.660109 | 9 29 | 4 58 |
| 6 | 14 15 19.74 | 0 34.66 | 12 12 18.6 | 2 28.4 | 0.661871 | 9 20 | 4 58 |
| 8 | 14 14 45.08 | 0 32.23 | 12 9 50.2 | 2 15.5 | 0.663709 | 9 12 | 4 59 |
| 10 | 14 14 12.85 | −0 29.73 | 12 7 34.7 | +2 2.4 | 0.665619 | 9 3 | 4 59 |
| 12 | 14 13 43.12 | 0 27.19 | −12 5 32.3 | 1 48.9 | 0.667597 | 8 55 | 4 59 |
| 14 | 14 13 15.93 | 0 24.61 | 12 3 43.4 | 1 35.2 | 0.669639 | 8 47 | 4 59 |
| 16 | 14 12 51.32 | 0 21.97 | 12 2 8.2 | 1 21.3 | 0.671741 | 8 38 | 4 59 |
| 18 | 14 12 29.35 | 0 19.30 | 12 0 46.9 | 1 7.2 | 0.673900 | 8 30 | 4 59 |
| 20 | 14 12 10.05 | −0 16.60 | 11 59 39.7 | +0 52.9 | 0.676112 | 8 22 | 5 0 |
| 22 | 14 11 53.45 | 0 13.86 | −11 58 46.8 | 0 38.5 | 0.678373 | 8 14 | 5 0 |
| 24 | 14 11 39.59 | 0 11.08 | 11 58 8.3 | 0 23.8 | 0.680679 | 8 6 | 5 0 |
| 26 | 14 11 28.51 | 0 8.29 | 11 57 44.5 | +0 9.1 | 0.683026 | 7 58 | 5 0 |
| 28 | 14 11 20.22 | 0 5.50 | 11 57 35.4 | −0 5.7 | 0.685411 | 7 50 | 5 0 |
| 30 | 14 11 14.72 | −0 2.70 | 11 57 41.1 | −0 20.4 | 0.687829 | 7 42 | 5 0 |
| Juli 2 | 14 11 12.02 | +0 0.10 | −11 58 1.5 | 0 35.1 | 0.690276 | 7 34 | 5 0 |
| 4 | 14 11 12.12 | 0 2.89 | 11 58 36.6 | 0 49.6 | 0.692748 | 7 26 | 5 0 |
| 6 | 14 11 15.01 | 0 5.65 | 11 59 26.2 | 1 4.0 | 0.695242 | 7 18 | 5 0 |
| 8 | 14 11 20.66 | 0 8.41 | 12 0 30.2 | 1 18.3 | 0.697754 | 7 10 | 4 59 |
| 10 | 14 11 29.07 | +0 11.14 | 12 1 48.5 | −1 32.3 | 0.700282 | 7 2 | 4 59 |
| 12 | 14 11 40.21 | 0 13.85 | −12 3 20.8 | 1 46.1 | 0.702821 | 6 55 | 4 59 |
| 14 | 14 11 54.06 | 0 16.54 | 12 5 6.9 | 1 59.8 | 0.705369 | 6 47 | 4 59 |
| 16 | 14 12 10.60 | 0 19.21 | 12 7 6.7 | 2 13.4 | 0.707923 | 6 39 | 4 59 |
| 18 | 14 12 29.81 | 0 21.86 | 12 9 20.1 | 2 26.8 | 0.710481 | 6 32 | 4 59 |
| 20 | 14 12 51.67 | +0 24.49 | 12 11 46.9 | −2 40.1 | 0.713039 | 6 24 | 4 58 |
| 22 | 14 13 16.16 | 0 27.09 | −12 14 27.0 | 2 53.0 | 0.715595 | 6 17 | 4 58 |
| 24 | 14 13 43.25 | 0 29.66 | 12 17 20.0 | 3 5.8 | 0.718146 | 6 10 | 4 58 |
| 26 | 14 14 12.91 | 0 32.20 | 12 20 25.8 | 3 18.3 | 0.720690 | 6 2 | 4 58 |
| 28 | 14 14 45.11 | 0 34.71 | 12 23 44.1 | 3 30.5 | 0.723223 | 5 55 | 4 57 |
| 30 | 14 15 19.82 | +0 37.17 | 12 27 14.6 | −3 42.3 | 0.725743 | 5 47 | 4 57 |
| Aug. 1 | 14 15 56.99 | 0 39.58 | −12 30 56.9 | 3 53.9 | 0.728247 | 5 40 | 4 57 |
| 3 | 14 16 36.57 | 0 41.95 | 12 34 50.8 | 4 5.1 | 0.730734 | 5 33 | 4 56 |
| 5 | 14 17 18.52 | 0 44.28 | 12 38 55.9 | 4 15.9 | 0.733200 | 5 26 | 4 56 |
| 7 | 14 18 2.80 | 0 46.56 | 12 43 11.8 | 4 26.4 | 0.735645 | 5 19 | 4 55 |
| 9 | 14 18 49.36 | +0 48.80 | 12 47 38.2 | −4 36.7 | 0.738067 | 5 12 | 4 55 |
| 11 | 14 19 38.16 | 0 51.00 | −12 52 14.9 | 4 46.5 | 0.740463 | 5 4 | 4 55 |
| 13 | 14 20 29.16 | 0 53.16 | 12 57 1.4 | 4 56.1 | 0.742833 | 4 57 | 4 54 |
| 15 | 14 21 22.32 | 0 55.29 | 13 1 57.5 | 5 5.3 | 0.745174 | 4 50 | 4 54 |
| 17 | 14 22 17.61 | 0 57.38 | 13 7 2.8 | 5 14.4 | 0.747485 | 4 43 | 4 53 |
| 19 | 14 23 14.99 | | 13 12 17.2 | | 0.749765 | 4 37 | 4 53 |

## Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Aug. 17 | 14 22 17.61 | +0 57.38 | −13 7 2.8 | −5 14.4 | 0.747485 | 4 43 | 4 53 |
| 19 | 14 23 14.99 | 0 59.43 | 13 12 17.2 | 5 23.0 | 0.749765 | 4 37 | 4 53 |
| 21 | 14 24 14.42 | 1 1.45 | 13 17 40.2 | 5 31.4 | 0.752012 | 4 30 | 4 52 |
| 23 | 14 25 15.87 | 1 3.42 | 13 23 11.6 | 5 39.5 | 0.754225 | 4 23 | 4 52 |
| 25 | 14 26 19.29 | +1 5.35 | 13 28 51.1 | −5 47.1 | 0.756402 | 4 16 | 4 51 |
| 27 | 14 27 24.64 | 1 7.22 | −13 34 38.2 | 5 54.4 | 0.758541 | 4 9 | 4 51 |
| 29 | 14 28 31.86 | 1 9.05 | 13 40 32.6 | 6 1.3 | 0.760641 | 4 2 | 4 50 |
| 31 | 14 29 40.91 | 1 10.84 | 13 46 33.9 | 6 7.8 | 0.762702 | 3 56 | 4 49 |
| Sept. 2 | 14 30 51.75 | 1 12.57 | 13 52 41.7 | 6 14.0 | 0.764721 | 3 49 | 4 49 |
| 4 | 14 32 4.32 | +1 14.26 | 13 58 55.7 | −6 19.9 | 0.766698 | 3 42 | 4 48 |
| 6 | 14 33 18.58 | 1 15.91 | −14 5 15.6 | 6 25.4 | 0.768632 | 3 36 | 4 48 |
| 8 | 14 34 34.49 | 1 17.51 | 14 11 41.0 | 6 30.6 | 0.770522 | 3 29 | 4 47 |
| 10 | 14 35 52.00 | 1 19.09 | 14 18 11.6 | 6 35.4 | 0.772368 | 3 22 | 4 46 |
| 12 | 14 37 11.09 | 1 20.63 | 14 24 47.0 | 6 40.0 | 0.774169 | 3 16 | 4 46 |
| 14 | 14 38 31.72 | +1 22.13 | 14 31 27.0 | −6 44.4 | 0.775924 | 3 9 | 4 45 |
| 16 | 14 39 53.85 | 1 23.60 | −14 38 11.4 | 6 48.4 | 0.777632 | 3 3 | 4 44 |
| 18 | 14 41 17.45 | 1 25.02 | 14 44 59.8 | 6 52.0 | 0.779292 | 2 56 | 4 44 |
| 20 | 14 42 42.47 | 1 26.41 | 14 51 51.8 | 6 55.5 | 0.780904 | 2 50 | 4 43 |
| 22 | 14 44 8.88 | 1 27.75 | 14 58 47.3 | 6 58.5 | 0.782466 | 2 43 | 4 42 |
| 24 | 14 45 36.63 | +1 29.05 | 15 5 45.8 | −7 1.2 | 0.783978 | 2 37 | 4 42 |
| 26 | 14 47 5.68 | 1 30.31 | −15 12 47.0 | 7 3.6 | 0.785439 | 2 31 | 4 41 |
| 28 | 14 48 35.99 | 1 31.52 | 15 19 50.6 | 7 5.6 | 0.786849 | 2 24 | 4 40 |
| 30 | 14 50 7.51 | 1 32.68 | 15 26 56.2 | 7 7.4 | 0.788207 | 2 18 | 4 40 |
| Okt. 2 | 14 51 40.19 | 1 33.80 | 15 34 3.6 | 7 8.7 | 0.789512 | 2 11 | 4 39 |
| 4 | 14 53 13.99 | +1 34.88 | 15 41 12.3 | −7 9.9 | 0.790764 | 2 5 | 4 38 |
| 6 | 14 54 48.87 | 1 35.93 | −15 48 22.2 | 7 10.7 | 0.791963 | 1 59 | 4 37 |
| 8 | 14 56 24.80 | 1 36.94 | 15 55 32.9 | 7 11.2 | 0.793108 | 1 52 | 4 37 |
| 10 | 14 58 1.74 | 1 37.92 | 16 2 44.1 | 7 11.6 | 0.794200 | 1 46 | 4 36 |
| 12 | 14 59 39.66 | 1 38.86 | 16 9 55.7 | 7 11.7 | 0.795237 | 1 40 | 4 35 |
| 14 | 15 1 18.52 | +1 39.76 | 16 17 7.4 | −7 11.6 | 0.796220 | 1 34 | 4 35 |
| 16 | 15 2 58.28 | 1 40.65 | −16 24 19.0 | 7 11.1 | 0.797148 | 1 28 | 4 34 |
| 18 | 15 4 38.93 | 1 41.48 | 16 31 30.1 | 7 10.4 | 0.798020 | 1 21 | 4 33 |
| 20 | 15 6 20.41 | 1 42.26 | 16 38 40.5 | 7 9.5 | 0.798835 | 1 15 | 4 32 |
| 22 | 15 8 2.67 | 1 43.01 | 16 45 50.0 | 7 8.2 | 0.799594 | 1 9 | 4 32 |
| 24 | 15 9 45.68 | +1 43.70 | 16 52 58.2 | −7 6.7 | 0.800296 | 1 3 | 4 31 |
| 26 | 15 11 29.38 | 1 44.36 | −17 0 4.9 | 7 4.8 | 0.800940 | 0 57 | 4 30 |
| 28 | 15 13 13.74 | 1 44.97 | 17 7 9.7 | 7 2.8 | 0.801527 | 0 51 | 4 29 |
| 30 | 15 14 58.71 | 1 45.54 | 17 14 12.5 | 7 0.5 | 0.802056 | 0 44 | 4 29 |
| Nov. 1 | 15 16 44.25 | 1 46.06 | 17 21 13.0 | 6 58.0 | 0.802527 | 0 38 | 4 28 |
| 3 | 15 18 30.31 | | 17 28 11.0 | | 0.802941 | 0 32 | 4 27 |

Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | m s | ° ′ ″ | ′ ″ | | h m | h m |
| Nov. 1 | 15 16 44.25 | +1 46.06 | −17 21 13.0 | −6 58.0 | 0.802527 | 0 38 | 4 28 |
| 3 | 15 18 30.31 | 1 46.55 | 17 28 11.0 | 6 55.2 | 0.802941 | 0 32 | 4 27 |
| 5 | 15 20 16.86 | 1 47.00 | 17 35 6.2 | 6 52.2 | 0.803297 | 0 26 | 4 27 |
| 7 | 15 22 3.86 | 1 47.42 | 17 41 58.4 | 6 49.1 | 0.803594 | 0 20 | 4 26 |
| 9 | 15 23 51.28 | +1 47.81 | 17 48 47.5 | −6 45.7 | 0.803833 | 0 14 | 4 25 |
| 11 | 15 25 39.09 | 1 48.15 | −17 55 33.2 | 6 42.3 | 0.804014 | 0 8 | 4 24 |
| 13 | 15 27 27.24 | 1 48.45 | 18 2 15.5 | 6 38.6 | 0.804135 | 0 2 | 4 24 |
| 15 | 15 29 15.69 | 1 48.70 | 18 8 54.1 | 6 34.7 | 0.804198 | 23 55 | 4 23 |
| 17 | 15 31 4.39 | 1 48.91 | 18 15 28.8 | 6 30.5 | 0.804202 | 23 49 | 4 22 |
| 19 | 15 32 53.30 | +1 49.07 | 18 21 59.3 | −6 26.2 | 0.804146 | 23 43 | 4 22 |
| 21 | 15 34 42.37 | 1 49.19 | −18 28 25.5 | 6 21.7 | 0.804030 | 23 37 | 4 21 |
| 23 | 15 36 31.56 | 1 49.25 | 18 34 47.2 | 6 16.9 | 0.803855 | 23 31 | 4 20 |
| 25 | 15 38 20.81 | 1 49.27 | 18 41 4.1 | 6 12.1 | 0.803620 | 23 25 | 4 20 |
| 27 | 15 40 10.08 | 1 49.23 | 18 47 16.2 | 6 7.0 | 0.803326 | 23 19 | 4 19 |
| 29 | 15 41 59.31 | +1 49.16 | 18 53 23.2 | −6 1.8 | 0.802971 | 23 13 | 4 18 |
| Dez. 1 | 15 43 48.47 | 1 49.03 | −18 59 25.0 | 5 56.5 | 0.802557 | 23 7 | 4 18 |
| 3 | 15 45 37.50 | 1 48.86 | 19 5 21.5 | 5 51.0 | 0.802084 | 23 1 | 4 17 |
| 5 | 15 47 26.36 | 1 48.66 | 19 11 12.5 | 5 45.5 | 0.801552 | 22 55 | 4 16 |
| 7 | 15 49 15.02 | 1 48.42 | 19 16 58.0 | 5 39.8 | 0.800960 | 22 49 | 4 16 |
| 9 | 15 51 3.44 | +1 48.11 | 19 22 37.8 | −5 34.0 | 0.800310 | 22 43 | 4 15 |
| 11 | 15 52 51.55 | 1 47.77 | −19 28 11.8 | 5 28.2 | 0.799601 | 22 37 | 4 15 |
| 13 | 15 54 39.32 | 1 47.38 | 19 33 40.0 | 5 22.2 | 0.798833 | 22 31 | 4 14 |
| 15 | 15 56 26.70 | 1 46.94 | 19 39 2.2 | 5 16.0 | 0.798005 | 22 24 | 4 14 |
| 17 | 15 58 13.64 | 1 46.44 | 19 44 18.2 | 5 9.8 | 0.797118 | 22 18 | 4 13 |
| 19 | 16 0 0.08 | +1 45.87 | 19 49 28.0 | −5 3.4 | 0.796172 | 22 12 | 4 12 |
| 21 | 16 1 45.95 | 1 45.26 | −19 54 31.4 | 4 57.0 | 0.795168 | 22 6 | 4 12 |
| 23 | 16 3 31.21 | 1 44.58 | 19 59 28.4 | 4 50.5 | 0.794105 | 22 0 | 4 11 |
| 25 | 16 5 15.79 | 1 43.85 | 20 4 18.9 | 4 43.9 | 0.792984 | 21 54 | 4 11 |
| 27 | 16 6 59.64 | 1 43.06 | 20 9 2.8 | 4 37.3 | 0.791805 | 21 48 | 4 10 |
| 29 | 16 8 42.70 | +1 42.23 | 20 13 40.1 | −4 30.6 | 0.790568 | 21 42 | 4 10 |
| 31 | 16 10 24.93 | 1 41.35 | −20 18 10.7 | 4 24.0 | 0.789275 | 21 35 | 4 9 |
| 33 | 16 12 6.28 | | 20 22 34.7 | | 0.787926 | 21 29 | 4 9 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | h m | h m |
| Jan. 1 | 1 54 4.97 | − 0.59 | + 8 59 43.5 | +0 34.5 | 0.946774 | 7 14 | 6 51 |
| 3 | 1 54 4.38 | + 1.12 | 9 0 18.0 | 0 44.2 | 0.948315 | 7 6 | 6 51 |
| 5 | 1 54 5.50 | 2.82 | 9 1 2.2 | 0 53.7 | 0.949867 | 6 58 | 6 51 |
| 7 | 1 54 8.32 | 4.53 | 9 1 55.9 | 1 3.1 | 0.951430 | 6 51 | 6 51 |
| 9 | 1 54 12.85 | + 6.22 | 9 2 59.0 | +1 12.5 | 0.953001 | 6 43 | 6 52 |
| 11 | 1 54 19.07 | 7.91 | + 9 4 11.5 | 1 21.7 | 0.954577 | 6 35 | 6 52 |
| 13 | 1 54 26.98 | 9.58 | 9 5 33.2 | 1 30.8 | 0.956156 | 6 27 | 6 52 |
| 15 | 1 54 36.56 | 11.24 | 9 7 4.0 | 1 39.8 | 0.957736 | 6 19 | 6 52 |
| 17 | 1 54 47.80 | 12.89 | 9 8 43.8 | 1 48.7 | 0.959316 | 6 12 | 6 52 |
| 19 | 1 55 0.69 | +14.53 | 9 10 32.5 | +1 57.5 | 0.960893 | 6 4 | 6 52 |
| 21 | 1 55 15.22 | 16.15 | + 9 12 30.0 | 2 6.1 | 0.962467 | 5 56 | 6 52 |
| 23 | 1 55 31.37 | 17.77 | 9 14 36.1 | 2 14.6 | 0.964035 | 5 49 | 6 53 |
| 25 | 1 55 49.14 | 19.37 | 9 16 50.7 | 2 23.0 | 0.965596 | 5 41 | 6 53 |
| 27 | 1 56 8.51 | 20.95 | 9 19 13.7 | 2 31.2 | 0.967148 | 5 34 | 6 53 |
| 29 | 1 56 29.46 | +22.51 | 9 21 44.9 | +2 39.2 | 0.968689 | 5 26 | 6 53 |
| 31 | 1 56 51.97 | 24.04 | + 9 24 24.1 | 2 47.1 | 0.970217 | 5 19 | 6 54 |
| Febr. 2 | 1 57 16.01 | 25.54 | 9 27 11.2 | 2 54.7 | 0.971730 | 5 11 | 6 54 |
| 4 | 1 57 41.55 | 27.02 | 9 30 5.9 | 3 2.1 | 0.973228 | 5 4 | 6 54 |
| 6 | 1 58 8.57 | 28.47 | 9 33 8.0 | 3 9.3 | 0.974708 | 4 56 | 6 54 |
| 8 | 1 58 37.04 | +29.88 | 9 36 17.3 | +3 16.2 | 0.976169 | 4 49 | 6 55 |
| 10 | 1 59 6.92 | 31.27 | + 9 39 33.5 | 3 22.9 | 0.977610 | 4 41 | 6 55 |
| 12 | 1 59 38.19 | 32.63 | 9 42 56.4 | 3 29.4 | 0.979029 | 4 34 | 6 55 |
| 14 | 2 0 10.82 | 33.95 | 9 46 25.8 | 3 35.7 | 0.980425 | 4 27 | 6 56 |
| 16 | 2 0 44.77 | 35.25 | 9 50 1.5 | 3 41.8 | 0.981798 | 4 19 | 6 56 |
| 18 | 2 1 20.02 | +36.53 | 9 53 43.3 | +3 47.6 | 0.983146 | 4 12 | 6 56 |
| 20 | 2 1 56.55 | 37.77 | + 9 57 30.9 | 3 53.3 | 0.984468 | 4 5 | 6 57 |
| 22 | 2 2 34.32 | 38.98 | 10 1 24.2 | 3 58.8 | 0.985763 | 3 58 | 6 57 |
| 24 | 2 3 13.30 | 40.17 | 10 5 23.0 | 4 4.1 | 0.987030 | 3 50 | 6 57 |
| 26 | 2 3 53.47 | 41.32 | 10 9 27.1 | 4 9.0 | 0.988268 | 3 43 | 6 58 |
| 28 | 2 4 34.79 | +42.43 | 10 13 36.1 | +4 13.8 | 0.989475 | 3 36 | 6 58 |
| März 2 | 2 5 17.22 | 43.51 | +10 17 49.9 | 4 18.2 | 0.990651 | 3 29 | 6 58 |
| 4 | 2 6 0.73 | 44.55 | 10 22 8.1 | 4 22.5 | 0.991796 | 3 22 | 6 59 |
| 6 | 2 6 45.28 | 45.56 | 10 26 30.6 | 4 26.6 | 0.992908 | 3 14 | 6 59 |
| 8 | 2 7 30.84 | 46.53 | 10 30 57.2 | 4 30.3 | 0.993986 | 3 7 | 7 0 |
| 10 | 2 8 17.37 | +47.47 | 10 35 27.5 | +4 33.8 | 0.995029 | 3 0 | 7 0 |
| 12 | 2 9 4.84 | 48.36 | +10 40 1.3 | 4 37.2 | 0.996038 | 2 53 | 7 1 |
| 14 | 2 9 53.20 | 49.23 | 10 44 38.5 | 4 40.2 | 0.997011 | 2 46 | 7 1 |
| 16 | 2 10 42.43 | 50.06 | 10 49 18.7 | 4 43.0 | 0.997949 | 2 39 | 7 1 |
| 18 | 2 11 32.49 | 50.87 | 10 54 1.7 | 4 45.7 | 0.998851 | 2 32 | 7 2 |
| 20 | 2 12 23.36 | | 10 58 47.4 | | 0.999715 | 2 25 | 7 2 |

## Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | h m | h m |
| März 18 | 2 11 32.49 | +50.87 | +10 54 1.7 | +4 45.7 | 0.998851 | 2 32 | 7 2 |
| 20 | 2 12 23.36 | 51.64 | 10 58 47.4 | 4 48.1 | 0.999715 | 2 25 | 7 2 |
| 22 | 2 13 15.00 | 52.37 | 11 3 35.5 | 4 50.4 | 1.000542 | 2 18 | 7 3 |
| 24 | 2 14 7.37 | 53.08 | 11 8 25.9 | 4 52.4 | 1.001331 | 2 11 | 7 3 |
| 26 | 2 15 0.45 | +53.75 | 11 13 18.3 | +4 54.3 | 1.002082 | 2 4 | 7 4 |
| 28 | 2 15 54.20 | 54.39 | +11 18 12.6 | 4 55.9 | 1.002794 | 1 57 | 7 4 |
| 30 | 2 16 48.59 | 54.99 | 11 23 8.5 | 4 57.2 | 1.003466 | 1 50 | 7 5 |
| April 1 | 2 17 43.58 | 55.55 | 11 28 5.7 | 4 58.3 | 1.004099 | 1 43 | 7 5 |
| 3 | 2 18 39.13 | 56.08 | 11 33 4.0 | 4 59.2 | 1.004692 | 1 36 | 7 6 |
| 5 | 2 19 35.21 | +56.57 | 11 38 3.2 | +4 59.9 | 1.005244 | 1 29 | 7 6 |
| 7 | 2 20 31.78 | 57.01 | +11 43 3.1 | 5 0.3 | 1.005756 | 1 22 | 7 6 |
| 9 | 2 21 28.79 | 57.43 | 11 48 3.4 | 5 0.6 | 1.006227 | 1 15 | 7 7 |
| 11 | 2 22 26.22 | 57.82 | 11 53 4.0 | 5 0.7 | 1.006657 | 1 8 | 7 7 |
| 13 | 2 23 24.04 | 58.17 | 11 58 4.7 | 5 0.6 | 1.007047 | 1 1 | 7 8 |
| 15 | 2 24 22.21 | +58.49 | 12 3 5.3 | +5 0.4 | 1.007396 | 0 54 | 7 8 |
| 17 | 2 25 20.70 | 58.78 | +12 8 5.7 | 5 0.0 | 1.007704 | 0 48 | 7 9 |
| 19 | 2 26 19.48 | 59.04 | 12 13 5.7 | 4 59.3 | 1.007971 | 0 41 | 7 9 |
| 21 | 2 27 18.52 | 59.28 | 12 18 5.0 | 4 58.5 | 1.008196 | 0 34 | 7 10 |
| 23 | 2 28 17.80 | 59.47 | 12 23 3.5 | 4 57.6 | 1.008380 | 0 27 | 7 10 |
| 25 | 2 29 17.27 | +59.63 | 12 28 1.1 | +4 56.4 | 1.008522 | 0 20 | 7 11 |
| 27 | 2 30 16.90 | 59.76 | +12 32 57.5 | 4 55.1 | 1.008623 | 0 13 | 7 11 |
| 29 | 2 31 16.66 | 59.84 | 12 37 52.6 | 4 53.5 | 1.008682 | 0 6 | 7 12 |
| Mai 1 | 2 32 16.50 | 59.89 | 12 42 46.1 | 4 51.9 | 1.008699 | 23 59 | 7 12 |
| 3 | 2 33 16.39 | 59.90 | 12 47 38.0 | 4 50.0 | 1.008675 | 23 52 | 7 13 |
| 5 | 2 34 16.29 | +59.88 | 12 52 28.0 | +4 47.9 | 1.008609 | 23 45 | 7 13 |
| 7 | 2 35 16.17 | 59.83 | +12 57 15.9 | 4 45.6 | 1.008501 | 23 39 | 7 14 |
| 9 | 2 36 16.00 | 59.75 | 13 2 1.5 | 4 43.3 | 1.008352 | 23 32 | 7 14 |
| 11 | 2 37 15.75 | 59.63 | 13 6 44.8 | 4 40.8 | 1.008163 | 23 25 | 7 15 |
| 13 | 2 38 15.38 | 59.48 | 13 11 25.6 | 4 38.1 | 1.007933 | 23 18 | 7 15 |
| 15 | 2 39 14.86 | +59.31 | 13 16 3.7 | +4 35.4 | 1.007662 | 23 11 | 7 15 |
| 17 | 2 40 14.17 | 59.10 | +13 20 39.1 | 4 32.5 | 1.007351 | 23 4 | 7 16 |
| 19 | 2 41 13.27 | 58.86 | 13 25 11.6 | 4 29.5 | 1.006999 | 22 57 | 7 16 |
| 21 | 2 42 12.13 | 58.59 | 13 29 41.1 | 4 26.3 | 1.006608 | 22 50 | 7 17 |
| 23 | 2 43 10.72 | 58.28 | 13 34 7.4 | 4 23.0 | 1.006176 | 22 43 | 7 17 |
| 25 | 2 44 9.00 | +57.93 | 13 38 30.4 | +4 19.5 | 1.005704 | 22 37 | 7 18 |
| 27 | 2 45 6.93 | 57.55 | +13 42 49.9 | 4 15.9 | 1.005193 | 22 30 | 7 18 |
| 29 | 2 46 4.48 | 57.13 | 13 47 5.8 | 4 12.1 | 1.004642 | 22 23 | 7 19 |
| 31 | 2 47 1.61 | 56.68 | 13 51 17.9 | 4 8.2 | 1.004052 | 22 16 | 7 19 |
| Juni 2 | 2 47 58.29 | 56.18 | 13 55 26.1 | 4 4.1 | 1.003423 | 22 9 | 7 19 |
| 4 | 2 48 54.47 | | 13 59 30.2 | | 1.002756 | 22 2 | 7 20 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | | AR. h m s | Diff. s | Dekl. ° ′ ″ | Diff. ′ ″ | Log. Δ | Östl. Stunden-Winkel h m | Halber Tag-bogen h m |
|---|---|---|---|---|---|---|---|---|
| Juni | 2 | 2 47 58.29 | +56.18 | +13 55 26.1 | +4 4.1 | 1.003423 | 22 9 | 7 19 |
| | 4 | 2 48 54.47 | 55.65 | 13 59 30.2 | 4 0.0 | 1.002756 | 22 2 | 7 20 |
| | 6 | 2 49 50.12 | 55.10 | 14 3 30.2 | 3 55.7 | 1.002051 | 21 55 | 7 20 |
| | 8 | 2 50 45.22 | 54.52 | 14 7 25.9 | 3 51.5 | 1.001309 | 21 48 | 7 21 |
| | 10 | 2 51 39.74 | +53.90 | 14 11 17.4 | +3 47.0 | 1.000531 | 21 41 | 7 21 |
| | 12 | 2 52 33.64 | 53.25 | +14 15 4.4 | 3 42.4 | 0.999716 | 21 34 | 7 21 |
| | 14 | 2 53 26.89 | 52.58 | 14 18 46.8 | 3 37.8 | 0.998865 | 21 27 | 7 22 |
| | 16 | 2 54 19.47 | 51.87 | 14 22 24.6 | 3 33.0 | 0.997979 | 21 20 | 7 22 |
| | 18 | 2 55 11.34 | 51.12 | 14 25 57.6 | 3 28.2 | 0.997057 | 21 13 | 7 22 |
| | 20 | 2 56 2.46 | +50.34 | 14 29 25.8 | +3 23.3 | 0.996101 | 21 6 | 7 23 |
| | 22 | 2 56 52.80 | 49.51 | +14 32 49.1 | 3 18.2 | 0.995111 | 20 59 | 7 23 |
| | 24 | 2 57 42.31 | 48.65 | 14 36 7.3 | 3 13.0 | 0.994087 | 20 52 | 7 23 |
| | 26 | 2 58 30.96 | 47.76 | 14 39 20.3 | 3 7.7 | 0.993030 | 20 45 | 7 24 |
| | 28 | 2 59 18.72 | 46.82 | 14 42 28.0 | 3 2.3 | 0.991940 | 20 37 | 7 24 |
| | 30 | 3 0 5.54 | +45.86 | 14 45 30.3 | +2 56.8 | 0.990818 | 20 30 | 7 24 |
| Juli | 2 | 3 0 51.40 | 44.86 | +14 48 27.1 | 2 51.2 | 0.989666 | 20 23 | 7 25 |
| | 4 | 3 1 36.26 | 43.83 | 14 51 18.3 | 2 45.6 | 0.988484 | 20 16 | 7 25 |
| | 6 | 3 2 20.09 | 42.77 | 14 54 3.9 | 2 39.9 | 0.987274 | 20 9 | 7 25 |
| | 8 | 3 3 2.86 | 41.68 | 14 56 43.8 | 2 34.1 | 0.986035 | 20 2 | 7 25 |
| | 10 | 3 3 44.54 | +40.56 | 14 59 17.9 | +2 28.3 | 0.984769 | 19 55 | 7 26 |
| | 12 | 3 4 25.10 | 39.41 | +15 1 46.2 | 2 22.4 | 0.983476 | 19 48 | 7 26 |
| | 14 | 3 5 4.51 | 38.23 | 15 4 8.6 | 2 16.5 | 0.982156 | 19 40 | 7 26 |
| | 16 | 3 5 42.74 | 37.01 | 15 6 25.1 | 2 10.4 | 0.980811 | 19 33 | 7 26 |
| | 18 | 3 6 19.75 | 35.75 | 15 8 35.5 | 2 4.3 | 0.979443 | 19 26 | 7 27 |
| | 20 | 3 6 55.50 | +34.47 | 15 10 39.8 | +1 58.1 | 0.978052 | 19 18 | 7 27 |
| | 22 | 3 7 29.97 | 33.15 | +15 12 37.9 | 1 51.8 | 0.976638 | 19 11 | 7 27 |
| | 24 | 3 8 3.12 | 31.80 | 15 14 29.7 | 1 45.4 | 0.975203 | 19 4 | 7 27 |
| | 26 | 3 8 34.92 | 30.41 | 15 16 15.1 | 1 39.1 | 0.973749 | 18 56 | 7 27 |
| | 28 | 3 9 5.33 | 29.00 | 15 17 54.2 | 1 32.6 | 0.972276 | 18 49 | 7 28 |
| | 30 | 3 9 34.33 | +27.55 | 15 19 26.8 | +1 26.1 | 0.970786 | 18 42 | 7 28 |
| Aug. | 1 | 3 10 1.88 | 26.09 | +15 20 52.9 | 1 19.5 | 0.969280 | 18 34 | 7 28 |
| | 3 | 3 10 27.97 | 24.60 | 15 22 12.4 | 1 12.9 | 0.967759 | 18 27 | 7 28 |
| | 5 | 3 10 52.57 | 23.08 | 15 23 25.3 | 1 6.4 | 0.966225 | 18 19 | 7 28 |
| | 7 | 3 11 15.65 | 21.55 | 15 24 31.7 | 0 59.8 | 0.964679 | 18 12 | 7 28 |
| | 9 | 3 11 37.20 | +20.00 | 15 25 31.5 | +0 53.2 | 0.963123 | 18 4 | 7 28 |
| | 11 | 3 11 57.20 | 18.42 | +15 26 24.7 | 0 46.5 | 0.961558 | 17 56 | 7 28 |
| | 13 | 3 12 15.62 | 16.83 | 15 27 11.2 | 0 39.9 | 0.959985 | 17 49 | 7 29 |
| | 15 | 3 12 32.45 | 15.20 | 15 27 51.1 | 0 33.2 | 0.958406 | 17 42 | 7 29 |
| | 17 | 3 12 47.65 | 13.56 | 15 28 24.3 | 0 26.4 | 0.956822 | 17 34 | 7 29 |
| | 19 | 3 13 1.21 | | 15 28 50.7 | | 0.955236 | 17 26 | 7 29 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | h m | h m |
| Aug. 17 | 3 12 47.65 | +13.56 | +15 28 24.3 | +0 26.4 | 0.956822 | 17 34 | 7 29 |
| 19 | 3 13 1.21 | 11.88 | 15 28 50.7 | 0 19.6 | 0.955236 | 17 26 | 7 29 |
| 21 | 3 13 13.09 | 10.20 | 15 29 10.3 | 0 12.7 | 0.953648 | 17 19 | 7 29 |
| 23 | 3 13 23.29 | 8.50 | 15 29 23.0 | +0 5.9 | 0.952061 | 17 11 | 7 29 |
| 25 | 3 13 31.79 | + 6.79 | 15 29 28.9 | −0 0.8 | 0.950476 | 17 3 | 7 29 |
| 27 | 3 13 38.58 | 5.07 | +15 29 28.1 | 0 7.6 | 0.948896 | 16 55 | 7 29 |
| 29 | 3 13 43.65 | 3.36 | 15 29 20.5 | 0 14.3 | 0.947322 | 16 48 | 7 29 |
| 31 | 3 13 47.01 | + 1.63 | 15 29 6.2 | 0 21.0 | 0.945757 | 16 40 | 7 29 |
| Sept. 2 | 3 13 48.64 | − 0.08 | 15 28 45.2 | 0 27.5 | 0.944203 | 16 32 | 7 29 |
| 4 | 3 13 48.56 | − 1.80 | 15 28 17.7 | −0 34.1 | 0.942661 | 16 24 | 7 29 |
| 6 | 3 13 46.76 | 3.50 | +15 27 43.6 | 0 40.5 | 0.941133 | 16 16 | 7 29 |
| 8 | 3 13 43.26 | 5.21 | 15 27 3.1 | 0 47.0 | 0.939621 | 16 8 | 7 29 |
| 10 | 3 13 38.05 | 6.91 | 15 26 16.1 | 0 53.4 | 0.938126 | 16 0 | 7 28 |
| 12 | 3 13 31.14 | 8.61 | 15 25 22.7 | 0 59.8 | 0.936652 | 15 52 | 7 28 |
| 14 | 3 13 22.53 | −10.29 | 15 24 22.9 | −1 6.1 | 0.935200 | 15 44 | 7 28 |
| 16 | 3 13 12.24 | 11.97 | +15 23 16.8 | 1 12.2 | 0.933773 | 15 36 | 7 28 |
| 18 | 3 13 0.27 | 13.61 | 15 22 4.6 | 1 18.3 | 0.932373 | 15 28 | 7 28 |
| 20 | 3 12 46.66 | 15.25 | 15 20 46.3 | 1 24.3 | 0.931002 | 15 20 | 7 28 |
| 22 | 3 12 31.41 | 16.85 | 15 19 22.0 | 1 30.1 | 0.929661 | 15 12 | 7 28 |
| 24 | 3 12 14.56 | −18.42 | 15 17 51.9 | −1 35.8 | 0.928354 | 15 4 | 7 28 |
| 26 | 3 11 56.14 | 19.94 | +15 16 16.1 | 1 41.2 | 0.927082 | 14 55 | 7 27 |
| 28 | 3 11 36.20 | 21.44 | 15 14 34.9 | 1 46.6 | 0.925848 | 14 47 | 7 27 |
| 30 | 3 11 14.76 | 22.88 | 15 12 48.3 | 1 51.7 | 0.924654 | 14 39 | 7 27 |
| Okt. 2 | 3 10 51.88 | 24.28 | 15 10 56.6 | 1 56.6 | 0.923501 | 14 31 | 7 27 |
| 4 | 3 10 27.60 | −25.64 | 15 9 0.0 | −2 1.3 | 0.922392 | 14 22 | 7 27 |
| 6 | 3 10 1.96 | 26.94 | +15 6 58.7 | 2 5.8 | 0.921328 | 14 14 | 7 27 |
| 8 | 3 9 35.02 | 28.20 | 15 4 52.9 | 2 10.1 | 0.920312 | 14 6 | 7 26 |
| 10 | 3 9 6.82 | 29.39 | 15 2 42.8 | 2 14.3 | 0.919345 | 13 57 | 7 26 |
| 12 | 3 8 37.43 | 30.54 | 15 0 28.5 | 2 18.1 | 0.918429 | 13 49 | 7 26 |
| 14 | 3 8 6.89 | −31.63 | 14 58 10.4 | −2 21.8 | 0.917565 | 13 41 | 7 26 |
| 16 | 3 7 35.26 | 32.64 | +14 55 48.6 | 2 25.1 | 0.916756 | 13 32 | 7 25 |
| 18 | 3 7 2.62 | 33.60 | 14 53 23.5 | 2 28.1 | 0.916003 | 13 24 | 7 25 |
| 20 | 3 6 29.02 | 34.48 | 14 50 55.4 | 2 30.8 | 0.915308 | 13 15 | 7 25 |
| 22 | 3 5 54.54 | 35.28 | 14 48 24.6 | 2 33.2 | 0.914672 | 13 7 | 7 25 |
| 24 | 3 5 19.26 | −35.99 | 14 45 51.4 | −2 35.2 | 0.914097 | 12 58 | 7 24 |
| 26 | 3 4 43.27 | 36.63 | +14 43 16.2 | 2 37.0 | 0.913584 | 12 50 | 7 24 |
| 28 | 3 4 6.64 | 37.17 | 14 40 39.2 | 2 38.4 | 0.913134 | 12 41 | 7 24 |
| 30 | 3 3 29.47 | 37.65 | 14 38 0.8 | 2 39.4 | 0.912748 | 12 33 | 7 24 |
| Nov. 1 | 3 2 51.82 | 38.03 | 14 35 21.4 | 2 40.1 | 0.912427 | 12 24 | 7 23 |
| 3 | 3 2 13.79 | | 14 32 41.3 | | 0.912171 | 12 16 | 7 23 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|---|
| | | h m s | s | ° ′ ″ | ′ ″ | | h m | h m |
| Nov. | 1 | 3 2 51.82 | −38.03 | +14 35 21.4 | −2 40.1 | 0.912427 | 12 24 | 7 23 |
| | 3 | 3 2 13.79 | 38.32 | 14 32 41.3 | 2 40.4 | 0.912171 | 12 16 | 7 23 |
| | 5 | 3 1 35.47 | 38.54 | 14 30 0.9 | 2 40.4 | 0.911981 | 12 7 | 7 23 |
| | 7 | 3 0 56.93 | 38.67 | 14 27 20.5 | 2 39.9 | 0.911856 | 11 59 | 7 23 |
| | 9 | 3 0 18.26 | −38.73 | 14 24 40.6 | −2 39.2 | 0.911798 | 11 50 | 7 22 |
| | 11 | 2 59 39.53 | 38.70 | +14 22 1.4 | 2 38.1 | 0.911807 | 11 42 | 7 22 |
| | 13 | 2 59 0.83 | 38.57 | 14 19 23.3 | 2 36.7 | 0.911883 | 11 33 | 7 22 |
| | 15 | 2 58 22.26 | 38.36 | 14 16 46.6 | 2 34.8 | 0.912025 | 11 25 | 7 21 |
| | 17 | 2 57 43.90 | 38.07 | 14 14 11.8 | 2 32.6 | 0.912234 | 11 16 | 7 21 |
| | 19 | 2 57 5.83 | −37.68 | 14 11 39.2 | −2 29.9 | 0.912509 | 11 8 | 7 21 |
| | 21 | 2 56 28.15 | 37.19 | +14 9 9.3 | 2 26.9 | 0.912850 | 10 59 | 7 21 |
| | 23 | 2 55 50.96 | 36.62 | 14 6 42.4 | 2 23.5 | 0.913257 | 10 51 | 7 20 |
| | 25 | 2 55 14.34 | 35.97 | 14 4 18.9 | 2 19.7 | 0.913728 | 10 42 | 7 20 |
| | 27 | 2 54 38.37 | 35.23 | 14 1 59.2 | 2 15.6 | 0.914263 | 10 34 | 7 20 |
| | 29 | 2 54 3.14 | −34.42 | 13 59 43.6 | −2 11.1 | 0.914860 | 10 25 | 7 20 |
| Dez. | 1 | 2 53 28.72 | 33.54 | +13 57 32.5 | 2 6.3 | 0.915518 | 10 17 | 7 20 |
| | 3 | 2 52 55.18 | 32.58 | 13 55 26.2 | 2 1.3 | 0.916236 | 10 8 | 7 19 |
| | 5 | 2 52 22.60 | 31.56 | 13 53 24.9 | 1 55.9 | 0.917012 | 10 0 | 7 19 |
| | 7 | 2 51 51.04 | 30.48 | 13 51 29.0 | 1 50.3 | 0.917845 | 9 51 | 7 19 |
| | 9 | 2 51 20.56 | −29.32 | 13 49 38.7 | −1 44.4 | 0.918733 | 9 43 | 7 19 |
| | 11 | 2 50 51.24 | 28.12 | +13 47 54.3 | 1 38.2 | 0.919675 | 9 35 | 7 19 |
| | 13 | 2 50 23.12 | 26.84 | 13 46 16.1 | 1 31.8 | 0.920668 | 9 26 | 7 18 |
| | 15 | 2 49 56.28 | 25.52 | 13 44 44.3 | 1 25.1 | 0.921711 | 9 18 | 7 18 |
| | 17 | 2 49 30.76 | 24.13 | 13 43 19.2 | 1 18.1 | 0.922803 | 9 10 | 7 18 |
| | 19 | 2 49 6.63 | −22.68 | 13 42 1.1 | −1 10.9 | 0.923941 | 9 1 | 7 18 |
| | 21 | 2 48 43.95 | 21.19 | +13 40 50.2 | 1 3.5 | 0.925124 | 8 53 | 7 18 |
| | 23 | 2 48 22.76 | 19.65 | 13 39 46.7 | 0 56.0 | 0.926349 | 8 45 | 7 18 |
| | 25 | 2 48 3.11 | 18.07 | 13 38 50.7 | 0 48.3 | 0.927614 | 8 37 | 7 18 |
| | 27 | 2 47 45.04 | 16.47 | 13 38 2.4 | 0 40.5 | 0.928916 | 8 28 | 7 18 |
| | 29 | 2 47 28.57 | −14.83 | 13 37 21.9 | −0 32.5 | 0.930253 | 8 20 | 7 18 |
| | 31 | 2 47 13.74 | 13.17 | +13 36 49.4 | 0 24.6 | 0.931623 | 8 12 | 7 18 |
| | 33 | 2 47 0.57 | | 13 36 24.8 | | 0.933024 | 8 4 | 7 17 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tagbogen |
|---|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ″ | | h m | h m |
| Jan. 1 | 19 45 40.18 | +29.44 | −21 43 43.9 | +73.9 | 1.314758 | 1 6 | 3 59 |
| 3 | 19 46 9.62 | 29.59 | 21 42 30.0 | 74.4 | 1.314935 | 0 58 | 4 0 |
| 5 | 19 46 39.21 | 29.72 | 21 41 15.6 | 75.0 | 1.315088 | 0 51 | 4 0 |
| 7 | 19 47 8.93 | 29.82 | 21 40 0.6 | 75.6 | 1.315217 | 0 43 | 4 0 |
| 9 | 19 47 38.75 | +29.90 | 21 38 45.0 | +76.1 | 1.315322 | 0 36 | 4 0 |
| 11 | 19 48 8.65 | 29.95 | −21 37 28.9 | 76.4 | 1.315404 | 0 29 | 4 0 |
| 13 | 19 48 38.60 | 29.99 | 21 36 12.5 | 76.7 | 1.315462 | 0 21 | 4 0 |
| 15 | 19 49 8.59 | 29.99 | 21 34 55.8 | 77.0 | 1.315496 | 0 14 | 4 0 |
| 17 | 19 49 38.58 | 29.97 | 21 33 38.8 | 77.2 | 1.315506 | 0 7 | 4 1 |
| 19 | 19 50 8.55 | +29.93 | 21 32 21.6 | +77.4 | 1.315493 | 23 59 | 4 1 |
| 21 | 19 50 38.48 | 29.86 | −21 31 4.2 | 77.4 | 1.315456 | 23 52 | 4 1 |
| 23 | 19 51 8.34 | 29.76 | 21 29 46.8 | 77.4 | 1.315395 | 23 44 | 4 1 |
| 25 | 19 51 38.10 | 29.64 | 21 28 29.4 | 77.3 | 1.315310 | 23 37 | 4 1 |
| 27 | 19 52 7.74 | 29.49 | 21 27 12.1 | 77.2 | 1.315201 | 23 30 | 4 1 |
| 29 | 19 52 37.23 | +29.32 | 21 25 54.9 | +76.9 | 1.315069 | 23 22 | 4 1 |
| 31 | 19 53 6.55 | 29.13 | −21 24 38.0 | 76.7 | 1.314913 | 23 15 | 4 2 |
| Febr. 2 | 19 53 35.68 | 28.90 | 21 23 21.3 | 76.3 | 1.314734 | 23 8 | 4 2 |
| 4 | 19 54 4.58 | 28.66 | 21 22 5.0 | 75.9 | 1.314532 | 23 0 | 4 2 |
| 6 | 19 54 33.24 | 28.38 | 21 20 49.1 | 75.3 | 1.314307 | 22 52 | 4 2 |
| 8 | 19 55 1.62 | +28.09 | 21 19 33.8 | +74.7 | 1.314060 | 22 45 | 4 2 |
| 10 | 19 55 29.71 | 27.78 | −21 18 19.1 | 74.1 | 1.313790 | 22 38 | 4 2 |
| 12 | 19 55 57.49 | 27.43 | 21 17 5.0 | 73.3 | 1.313498 | 22 30 | 4 2 |
| 14 | 19 56 24.92 | 27.07 | 21 15 51.7 | 72.5 | 1.313184 | 22 23 | 4 3 |
| 16 | 19 56 51.99 | 26.69 | 21 14 39.2 | 71.7 | 1.312849 | 22 16 | 4 3 |
| 18 | 19 57 18.68 | +26.28 | 21 13 27.5 | +70.8 | 1.312494 | 22 8 | 4 3 |
| 20 | 19 57 44.96 | 25.85 | −21 12 16.7 | 69.8 | 1.312118 | 22 1 | 4 3 |
| 22 | 19 58 10.81 | 25.41 | 21 11 6.9 | 68.6 | 1.311721 | 21 53 | 4 3 |
| 24 | 19 58 36.22 | 24.93 | 21 9 58.3 | 67.4 | 1.311304 | 21 46 | 4 3 |
| 26 | 19 59 1.15 | 24.44 | 21 8 50.9 | 66.2 | 1.310868 | 21 38 | 4 3 |
| 28 | 19 59 25.59 | +23.93 | 21 7 44.7 | +64.9 | 1.310412 | 21 31 | 4 4 |
| März 2 | 19 59 49.52 | 23.39 | −21 6 39.8 | 63.5 | 1.309937 | 21 23 | 4 4 |
| 4 | 20 0 12.91 | 22.84 | 21 5 36.3 | 62.0 | 1.309444 | 21 16 | 4 4 |
| 6 | 20 0 35.75 | 22.26 | 21 4 34.3 | 60.6 | 1.308934 | 21 8 | 4 4 |
| 8 | 20 0 58.01 | 21.67 | 21 3 33.7 | 59.0 | 1.308406 | 21 1 | 4 4 |
| 10 | 20 1 19.68 | +21.05 | 21 2 34.7 | +57.3 | 1.307862 | 20 53 | 4 4 |
| 12 | 20 1 40.73 | 20.43 | −21 1 37.4 | 55.7 | 1.307302 | 20 46 | 4 4 |
| 14 | 20 2 1.16 | 19.79 | 21 0 41.7 | 53.9 | 1.306727 | 20 38 | 4 4 |
| 16 | 20 2 20.95 | 19.13 | 20 59 47.8 | 52.1 | 1.306136 | 20 31 | 4 4 |
| 18 | 20 2 40.08 | 18.46 | 20 58 55.7 | 50.2 | 1.305531 | 20 23 | 4 4 |
| 20 | 20 2 58.54 | | 20 58 5.5 | | 1.304913 | 20 16 | 4 5 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | AR. h m s | Diff. s | Dekl. ° ′ ″ | Diff. ″ | Log. Δ | Östl. Stunden-Winkel h m | Halber Tag-bogen h m |
|---|---|---|---|---|---|---|---|
| März 18 | 20 2 40.08 | +18.46 | −20 58 55.7 | +50.2 | 1.305531 | 20 23 | 4 4 |
| 20 | 20 2 58.54 | 17.78 | 20 58 5.5 | 48.2 | 1.304913 | 20 16 | 4 5 |
| 22 | 20 3 16.32 | 17.07 | 20 57 17.3 | 46.3 | 1.304282 | 20 8 | 4 5 |
| 24 | 20 3 33.39 | 16.36 | 20 56 31.0 | 44.2 | 1.303637 | 20 0 | 4 5 |
| 26 | 20 3 49.75 | +15.62 | 20 55 46.8 | +42.0 | 1.302981 | 19 53 | 4 5 |
| 28 | 20 4 5.37 | 14.88 | −20 55 4.8 | 39.9 | 1.302314 | 19 45 | 4 5 |
| 30 | 20 4 20.25 | 14.12 | 20 54 24.9 | 37.8 | 1.301637 | 19 37 | 4 5 |
| April 1 | 20 4 34.37 | 13.34 | 20 53 47.1 | 35.5 | 1.300950 | 19 30 | 4 5 |
| 3 | 20 4 47.71 | 12.56 | 20 53 11.6 | 33.2 | 1.300254 | 19 22 | 4 5 |
| 5 | 20 5 0.27 | +11.77 | 20 52 38.4 | +31.0 | 1.299551 | 19 14 | 4 5 |
| 7 | 20 5 12.04 | 10.97 | −20 52 7.4 | 28.6 | 1.298840 | 19 7 | 4 5 |
| 9 | 20 5 23.01 | 10.17 | 20 51 38.8 | 26.2 | 1.298122 | 18 59 | 4 5 |
| 11 | 20 5 33.18 | 9.36 | 20 51 12.6 | 23.8 | 1.297399 | 18 51 | 4 5 |
| 13 | 20 5 42.54 | 8.55 | 20 50 48.8 | 21.3 | 1.296672 | 18 44 | 4 5 |
| 15 | 20 5 51.09 | + 7.72 | 20 50 27.5 | +18.9 | 1.295940 | 18 36 | 4 5 |
| 17 | 20 5 58.81 | 6.90 | −20 50 8.6 | 16.4 | 1.295204 | 18 28 | 4 6 |
| 19 | 20 6 5.71 | 6.06 | 20 49 52.2 | 13.9 | 1.294465 | 18 20 | 4 6 |
| 21 | 20 6 11.77 | 5.23 | 20 49 38.3 | 11.5 | 1.293725 | 18 13 | 4 6 |
| 23 | 20 6 17.00 | 4.39 | 20 49 26.8 | 9.0 | 1.292984 | 18 5 | 4 6 |
| 25 | 20 6 21.39 | + 3.54 | 20 49 17.8 | + 6.4 | 1.292243 | 17 57 | 4 6 |
| 27 | 20 6 24.93 | 2.70 | −20 49 11.4 | 3.9 | 1.291503 | 17 49 | 4 6 |
| 29 | 20 6 27.63 | 1.85 | 20 49 7.5 | + 1.5 | 1.290765 | 17 41 | 4 6 |
| Mai 1 | 20 6 29.48 | 1.00 | 20 49 6.0 | − 1.0 | 1.290030 | 17 33 | 4 6 |
| 3 | 20 6 30.48 | + 0.16 | 20 49 7.0 | 3.6 | 1.289298 | 17 26 | 4 6 |
| 5 | 20 6 30.64 | − 0.67 | 20 49 10.6 | − 6.1 | 1.288570 | 17 18 | 4 6 |
| 7 | 20 6 29.97 | 1.50 | −20 49 16.7 | 8.6 | 1.287848 | 17 10 | 4 6 |
| 9 | 20 6 28.47 | 2.32 | 20 49 25.3 | 11.0 | 1.287132 | 17 2 | 4 6 |
| 11 | 20 6 26.15 | 3.13 | 20 49 36.3 | 13.4 | 1.286423 | 16 54 | 4 6 |
| 13 | 20 6 23.02 | 3.94 | 20 49 49.7 | 15.8 | 1.285722 | 16 46 | 4 6 |
| 15 | 20 6 19.08 | − 4.74 | 20 50 5.5 | −18.1 | 1.285029 | 16 38 | 4 6 |
| 17 | 20 6 14.34 | 5.53 | −20 50 23.6 | 20.5 | 1.284346 | 16 30 | 4 5 |
| 19 | 20 6 8.81 | 6.31 | 20 50 44.1 | 22.7 | 1.283673 | 16 22 | 4 5 |
| 21 | 20 6 2.50 | 7.09 | 20 51 6.8 | 24.9 | 1.283012 | 16 14 | 4 5 |
| 23 | 20 5 55.41 | 7.85 | 20 51 31.7 | 27.1 | 1.282363 | 16 6 | 4 5 |
| 25 | 20 5 47.56 | − 8.60 | 20 51 58.8 | −29.2 | 1.281727 | 15 58 | 4 5 |
| 27 | 20 5 38.96 | 9.34 | −20 52 28.0 | 31.3 | 1.281104 | 15 50 | 4 5 |
| 29 | 20 5 29.62 | 10.06 | 20 52 59.3 | 33.3 | 1.280495 | 15 42 | 4 5 |
| 31 | 20 5 19.56 | 10.76 | 20 53 32.6 | 35.3 | 1.279902 | 15 34 | 4 5 |
| Juni 2 | 20 5 8.80 | 11.43 | 20 54 7.9 | 37.3 | 1.279326 | 15 26 | 4 5 |
| 4 | 20 4 57.37 | | 20 54 45.2 | | 1.278766 | 15 18 | 4 5 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|---|
| | | h m s | s | ° ′ ″ | ″ | | h m | h m |
| Juni | 2 | 20 5 8.80 | −11.43 | −20 54 7.9 | −37.3 | 1.279326 | 15 26 | 4 5 |
| | 4 | 20 4 57.37 | 12.09 | 20 54 45.2 | 39.1 | 1.278766 | 15 18 | 4 5 |
| | 6 | 20 4 45.28 | 12.73 | 20 55 24.3 | 40.9 | 1.278224 | 15 10 | 4 5 |
| | 8 | 20 4 32.55 | 13.35 | 20 56 5.2 | 42.6 | 1.277700 | 15 2 | 4 5 |
| | 10 | 20 4 19.20 | −13.94 | 20 56 47.8 | −44.2 | 1.277196 | 14 54 | 4 5 |
| | 12 | 20 4 5.26 | 14.52 | −20 57 32.0 | 45.7 | 1.276711 | 14 45 | 4 5 |
| | 14 | 20 3 50.74 | 15.07 | 20 58 17.7 | 47.0 | 1.276247 | 14 37 | 4 5 |
| | 16 | 20 3 35.67 | 15.60 | 20 59 4.7 | 48.4 | 1.275804 | 14 29 | 4 5 |
| | 18 | 20 3 20.07 | 16.11 | 20 59 53.1 | 49.7 | 1.275383 | 14 21 | 4 4 |
| | 20 | 20 3 3.96 | −16.60 | 21 0 42.8 | −51.0 | 1.274984 | 14 13 | 4 4 |
| | 22 | 20 2 47.36 | 17.05 | −21 1 33.8 | 52.0 | 1.274608 | 14 5 | 4 4 |
| | 24 | 20 2 30.31 | 17.48 | 21 2 25.8 | 53.0 | 1.274256 | 13 57 | 4 4 |
| | 26 | 20 2 12.83 | 17.88 | 21 3 18.8 | 54.0 | 1.273927 | 13 48 | 4 4 |
| | 28 | 20 1 54.95 | 18.25 | 21 4 12.8 | 54.8 | 1.273622 | 13 40 | 4 4 |
| | 30 | 20 1 36.70 | −18.59 | 21 5 7.6 | −55.5 | 1.273343 | 13 32 | 4 4 |
| Juli | 2 | 20 1 18.11 | 18.89 | −21 6 3.1 | 56.1 | 1.273089 | 13 24 | 4 4 |
| | 4 | 20 0 59.22 | 19.17 | 21 6 59.2 | 56.7 | 1.272861 | 13 16 | 4 4 |
| | 6 | 20 0 40.05 | 19.40 | 21 7 55.9 | 57.1 | 1.272659 | 13 7 | 4 4 |
| | 8 | 20 0 20.65 | 19.62 | 21 8 53.0 | 57.4 | 1.272483 | 12 59 | 4 3 |
| | 10 | 20 0 1.03 | −19.80 | 21 9 50.4 | −57.6 | 1.272334 | 12 51 | 4 3 |
| | 12 | 19 59 41.23 | 19.95 | −21 10 48.0 | 57.8 | 1.272211 | 12 43 | 4 3 |
| | 14 | 19 59 21.28 | 20.08 | 21 11 45.8 | 57.9 | 1.272115 | 12 35 | 4 3 |
| | 16 | 19 59 1.20 | 20.16 | 21 12 43.7 | 57.8 | 1.272046 | 12 27 | 4 3 |
| | 18 | 19 58 41.04 | 20.22 | 21 13 41.5 | 57.7 | 1.272005 | 12 18 | 4 3 |
| | 20 | 19 58 20.82 | −20.24 | 21 14 39.2 | −57.5 | 1.271991 | 12 10 | 4 3 |
| | 22 | 19 58 0.58 | 20.23 | −21 15 36.7 | 57.2 | 1.272004 | 12 2 | 4 3 |
| | 24 | 19 57 40.35 | 20.18 | 21 16 33.9 | 56.6 | 1.272045 | 11 53 | 4 3 |
| | 26 | 19 57 20.17 | 20.10 | 21 17 30.5 | 56.1 | 1.272113 | 11 45 | 4 2 |
| | 28 | 19 57 0.07 | 19.98 | 21 18 26.6 | 55.6 | 1.272209 | 11 37 | 4 2 |
| | 30 | 19 56 40.09 | −19.83 | 21 19 22.2 | −54.9 | 1.272332 | 11 29 | 4 2 |
| Aug. | 1 | 19 56 20.26 | 19.64 | −21 20 17.1 | 54.1 | 1.272482 | 11 21 | 4 2 |
| | 3 | 19 56 0.62 | 19.43 | 21 21 11.2 | 53.2 | 1.272659 | 11 12 | 4 2 |
| | 5 | 19 55 41.19 | 19.18 | 21 22 4.4 | 52.4 | 1.272862 | 11 4 | 4 2 |
| | 7 | 19 55 22.01 | 18.90 | 21 22 56.8 | 51.3 | 1.273091 | 10 56 | 4 2 |
| | 9 | 19 55 3.11 | −18.59 | 21 23 48.1 | −50.2 | 1.273347 | 10 48 | 4 2 |
| | 11 | 19 54 44.52 | 18.26 | −21 24 38.3 | 49.0 | 1.273628 | 10 39 | 4 2 |
| | 13 | 19 54 26.26 | 17.89 | 21 25 27.3 | 47.8 | 1.273934 | 10 31 | 4 2 |
| | 15 | 19 54 8.37 | 17.49 | 21 26 15.1 | 46.5 | 1.274266 | 10 23 | 4 1 |
| | 17 | 19 53 50.88 | 17.07 | 21 27 1.6 | 45.0 | 1.274621 | 10 15 | 4 1 |
| | 19 | 19 53 33.81 | | 21 27 46.6 | | 1.275000 | 10 7 | 4 1 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | s | ° ' " | " | | h m | h m |
| Aug. 17 | 19 53 50.88 | −17.07 | −21 27 1.6 | −45.0 | 1.274621 | 10 15 | 4 1 |
| 19 | 19 53 33.81 | 16.62 | 21 27 46.6 | 43.6 | 1.275000 | 10 7 | 4 1 |
| 21 | 19 53 17.19 | 16.13 | 21 28 30.2 | 42.1 | 1.275402 | 9 59 | 4 1 |
| 23 | 19 53 1.06 | 15.61 | 21 29 12.3 | 40.6 | 1.275828 | 9 51 | 4 1 |
| 25 | 19 52 45.45 | −15.06 | 21 29 52.9 | −38.9 | 1.276277 | 9 42 | 4 1 |
| 27 | 19 52 30.39 | 14.50 | −21 30 31.8 | 37.2 | 1.276747 | 9 34 | 4 1 |
| 29 | 19 52 15.89 | 13.91 | 21 31 9.0 | 35.4 | 1.277238 | 9 26 | 4 1 |
| 31 | 19 52 1.98 | 13.29 | 21 31 44.4 | 33.6 | 1.277751 | 9 18 | 4 1 |
| Sept. 2 | 19 51 48.69 | 12.65 | 21 32 18.0 | 31.7 | 1.278283 | 9 10 | 4 1 |
| 4 | 19 51 36.04 | −11.99 | 21 32 49.7 | −29.8 | 1.278833 | 9 2 | 4 1 |
| 6 | 19 51 24.05 | 11.32 | −21 33 19.5 | 28.0 | 1.279402 | 8 54 | 4 1 |
| 8 | 19 51 12.73 | 10.61 | 21 33 47.5 | 26.0 | 1.279988 | 8 46 | 4 1 |
| 10 | 19 51 2.12 | 9.90 | 21 34 13.5 | 24.0 | 1.280591 | 8 38 | 4 1 |
| 12 | 19 50 52.22 | 9.17 | 21 34 37.5 | 22.0 | 1.281210 | 8 30 | 4 0 |
| 14 | 19 50 43.05 | − 8.43 | 21 34 59.5 | −20.0 | 1.281844 | 8 21 | 4 0 |
| 16 | 19 50 34.62 | 7.66 | −21 35 19.5 | 17.8 | 1.282493 | 8 13 | 4 0 |
| 18 | 19 50 26.96 | 6.88 | 21 35 37.3 | 15.7 | 1.283155 | 8 5 | 4 0 |
| 20 | 19 50 20.08 | 6.09 | 21 35 53.0 | 13.5 | 1.283830 | 7 57 | 4 0 |
| 22 | 19 50 13.99 | 5.28 | 21 36 6.5 | 11.4 | 1.284517 | 7 49 | 4 0 |
| 24 | 19 50 8.71 | − 4.46 | 21 36 17.9 | − 9.1 | 1.285216 | 7 41 | 4 0 |
| 26 | 19 50 4.25 | 3.62 | −21 36 27.0 | 6.9 | 1.285925 | 7 34 | 4 0 |
| 28 | 19 50 0.63 | 2.79 | 21 36 33.9 | 4.7 | 1.286642 | 7 26 | 4 0 |
| 30 | 19 49 57.84 | 1.94 | 21 36 38.6 | 2.4 | 1.287368 | 7 18 | 4 0 |
| Okt. 2 | 19 49 55.90 | 1.09 | 21 36 41.0 | − 0.3 | 1.288102 | 7 10 | 4 0 |
| 4 | 19 49 54.81 | − 0.23 | 21 36 41.3 | + 2.0 | 1.288842 | 7 2 | 4 0 |
| 6 | 19 49 54.58 | + 0.62 | −21 36 39.3 | 4.3 | 1.289586 | 6 54 | 4 0 |
| 8 | 19 49 55.20 | 1.48 | 21 36 35.0 | 6.5 | 1.290335 | 6 46 | 4 0 |
| 10 | 19 49 56.68 | 2.34 | 21 36 28.5 | 8.8 | 1.291089 | 6 38 | 4 0 |
| 12 | 19 49 59.02 | 3.20 | 21 36 19.7 | 11.1 | 1.291846 | 6 30 | 4 0 |
| 14 | 19 50 2.22 | + 4.06 | 21 36 8.6 | +13.3 | 1.292604 | 6 23 | 4 0 |
| 16 | 19 50 6.28 | 4.93 | −21 35 55.3 | 15.6 | 1.293363 | 6 15 | 4 0 |
| 18 | 19 50 11.21 | 5.79 | 21 35 39.7 | 17.8 | 1.294124 | 6 7 | 4 0 |
| 20 | 19 50 17.00 | 6.66 | 21 35 21.9 | 20.1 | 1.294884 | 5 59 | 4 0 |
| 22 | 19 50 23.66 | 7.51 | 21 35 1.8 | 22.3 | 1.295642 | 5 51 | 4 0 |
| 24 | 19 50 31.17 | + 8.37 | 21 34 39.5 | +24.6 | 1.296398 | 5 44 | 4 0 |
| 26 | 19 50 39.54 | 9.22 | −21 34 14.9 | 26.9 | 1.297151 | 5 36 | 4 1 |
| 28 | 19 50 48.76 | 10.05 | 21 33 48.0 | 29.0 | 1.297900 | 5 28 | 4 1 |
| 30 | 19 50 58.81 | 10.88 | 21 33 19.0 | 31.2 | 1.298643 | 5 20 | 4 1 |
| Nov. 1 | 19 51 9.69 | 11.69 | 21 32 47.8 | 33.4 | 1.299380 | 5 13 | 4 1 |
| 3 | 19 51 21.38 | | 21 32 14.4 | | 1.300111 | 5 5 | 4 1 |

## Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | AR. h m s | Diff. s | Dekl. ° ′ ″ | Diff. ″ | Log. Δ | Östl. Stunden-Winkel h m | Halber Tagbogen h m |
|---|---|---|---|---|---|---|---|
| Nov. 1 | 19 51 9.69 | +11.69 | −21 32 47.8 | +33.4 | 1.299380 | 5 13 | 4 1 |
| 3 | 19 51 21.38 | 12.49 | 21 32 14.4 | 35.6 | 1.300111 | 5 5 | 4 1 |
| 5 | 19 51 33.87 | 13.29 | 21 31 38.8 | 37.6 | 1.300834 | 4 57 | 4 1 |
| 7 | 19 51 47.16 | 14.07 | 21 31 1.2 | 39.7 | 1.301549 | 4 50 | 4 1 |
| 9 | 19 52 1.23 | +14.83 | 21 30 21.5 | +41.8 | 1.302255 | 4 42 | 4 1 |
| 11 | 19 52 16.06 | 15.60 | −21 29 39.7 | 43.9 | 1.302952 | 4 34 | 4 1 |
| 13 | 19 52 31.66 | 16.34 | 21 28 55.8 | 45.9 | 1.303639 | 4 27 | 4 1 |
| 15 | 19 52 48.00 | 17.08 | 21 28 9.9 | 48.0 | 1.304314 | 4 19 | 4 1 |
| 17 | 19 53 5.08 | 17.79 | 21 27 21.9 | 50.0 | 1.304977 | 4 11 | 4 1 |
| 19 | 19 53 22.87 | +18.50 | 21 26 31.9 | +51.9 | 1.305628 | 4 4 | 4 1 |
| 21 | 19 53 41.37 | 19.19 | −21 25 40.0 | 53.8 | 1.306266 | 3 56 | 4 1 |
| 23 | 19 54 0.56 | 19.85 | 21 24 46.2 | 55.7 | 1.306889 | 3 49 | 4 2 |
| 25 | 19 54 20.41 | 20.50 | 21 23 50.5 | 57.6 | 1.307497 | 3 41 | 4 2 |
| 27 | 19 54 40.91 | 21.13 | 21 22 52.9 | 59.3 | 1.308091 | 3 34 | 4 2 |
| 29 | 19 55 2.04 | +21.73 | 21 21 53.6 | +61.1 | 1.308669 | 3 26 | 4 2 |
| Dez. 1 | 19 55 23.77 | 22.32 | −21 20 52.5 | 62.7 | 1.309230 | 3 19 | 4 2 |
| 3 | 19 55 46.09 | 22.88 | 21 19 49.8 | 64.5 | 1.309774 | 3 12 | 4 2 |
| 5 | 19 56 8.97 | 23.43 | 21 18 45.3 | 66.2 | 1.310301 | 3 4 | 4 2 |
| 7 | 19 56 32.40 | 23.95 | 21 17 39.1 | 67.7 | 1.310810 | 2 56 | 4 2 |
| 9 | 19 56 56.35 | +24.45 | 21 16 31.4 | +69.1 | 1.311300 | 2 48 | 4 3 |
| 11 | 19 57 20.80 | 24.94 | −21 15 22.3 | 70.6 | 1.311772 | 2 41 | 4 3 |
| 13 | 19 57 45.74 | 25.40 | 21 14 11.7 | 72.1 | 1.312224 | 2 34 | 4 3 |
| 15 | 19 58 11.14 | 25.85 | 21 12 59.6 | 73.6 | 1.312656 | 2 26 | 4 3 |
| 17 | 19 58 36.99 | 26.26 | 21 11 46.0 | 74.9 | 1.313068 | 2 19 | 4 3 |
| 19 | 19 59 3.25 | +26.66 | 21 10 31.1 | +76.2 | 1.313459 | 2 11 | 4 3 |
| 21 | 19 59 29.91 | 27.02 | −21 9 14.9 | 77.4 | 1.313830 | 2 4 | 4 3 |
| 23 | 19 59 56.93 | 27.38 | 21 7 57.5 | 78.6 | 1.314179 | 1 56 | 4 4 |
| 25 | 20 0 24.31 | 27.69 | 21 6 38.9 | 79.6 | 1.314506 | 1 49 | 4 4 |
| 27 | 20 0 52.00 | 27.99 | 21 5 19.3 | 80.7 | 1.314811 | 1 41 | 4 4 |
| 29 | 20 1 19.99 | +28.25 | 21 3 58.6 | +81.7 | 1.315094 | 1 34 | 4 4 |
| 31 | 20 1 48.24 | 28.50 | −21 2 36.9 | 82.6 | 1.315354 | 1 27 | 4 4 |
| 33 | 20 2 16.74 | | 21 1 14.3 | | 1.315591 | 1 19 | 4 4 |

## Wahrer geozentrischer Ort.

| 0ʰ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| Jan. 1 | 7ʰ 28ᵐ 5ˢ.20 | −14ˢ.16 | +21° 15′ 7″.1 | +30″.8 | 1.462353 | 12ʰ 48ᵐ | 8ʰ 6ᵐ |
| 3 | 7 27 51.04 | 14.26 | 21 15 37.9 | 31.0 | 1.462267 | 12 40 | 8 7 |
| 5 | 7 27 36.78 | 14.33 | 21 16 8.9 | 31.1 | 1.462201 | 12 32 | 8 7 |
| 7 | 7 27 22.45 | 14.38 | 21 16 40.0 | 31.2 | 1.462153 | 12 24 | 8 7 |
| 9 | 7 27 8.07 | −14.40 | 21 17 11.2 | +31.4 | 1.462124 | 12 16 | 8 7 |
| 11 | 7 26 53.67 | 14.40 | +21 17 42.6 | 31.4 | 1.462114 | 12 8 | 8 7 |
| 13 | 7 26 39.27 | 14.37 | 21 18 14.0 | 31.3 | 1.462122 | 11 59 | 8 7 |
| 15 | 7 26 24.90 | 14.33 | 21 18 45.3 | 31.2 | 1.462149 | 11 51 | 8 7 |
| 17 | 7 26 10.57 | 14.26 | 21 19 16.5 | 31.1 | 1.462195 | 11 43 | 8 7 |
| 19 | 7 25 56.31 | −14.17 | 21 19 47.6 | +30.9 | 1.462259 | 11 35 | 8 7 |
| 21 | 7 25 42.14 | 14.05 | +21 20 18.5 | 30.7 | 1.462342 | 11 27 | 8 7 |
| 23 | 7 25 28.09 | 13.92 | 21 20 49.2 | 30.4 | 1.462443 | 11 19 | 8 7 |
| 25 | 7 25 14.17 | 13.76 | 21 21 19.6 | 30.2 | 1.462562 | 11 11 | 8 7 |
| 27 | 7 25 0.41 | 13.58 | 21 21 49.8 | 29.8 | 1.462699 | 11 3 | 8 7 |
| 29 | 7 24 46.83 | −13.37 | 21 22 19.6 | +29.4 | 1.462854 | 10 54 | 8 7 |
| 31 | 7 24 33.46 | 13.14 | +21 22 49.0 | 28.9 | 1.463027 | 10 46 | 8 7 |
| Febr. 2 | 7 24 20.32 | 12.89 | 21 23 17.9 | 28.5 | 1.463217 | 10 38 | 8 7 |
| 4 | 7 24 7.43 | 12.61 | 21 23 46.4 | 28.0 | 1.463424 | 10 30 | 8 7 |
| 6 | 7 23 54.82 | 12.32 | 21 24 14.4 | 27.4 | 1.463648 | 10 22 | 8 8 |
| 8 | 7 23 42.50 | −12.00 | 21 24 41.8 | +26.8 | 1.463888 | 10 14 | 8 8 |
| 10 | 7 23 30.50 | 11.68 | +21 25 8.6 | 26.2 | 1.464144 | 10 6 | 8 8 |
| 12 | 7 23 18.82 | 11.33 | 21 25 34.8 | 25.4 | 1.464416 | 9 58 | 8 8 |
| 14 | 7 23 7.49 | 10.96 | 21 26 0.2 | 24.7 | 1.464703 | 9 50 | 8 8 |
| 16 | 7 22 56.53 | 10.58 | 21 26 24.9 | 24.0 | 1.465004 | 9 42 | 8 8 |
| 18 | 7 22 45.95 | −10.19 | 21 26 48.9 | +23.3 | 1.465320 | 9 34 | 8 8 |
| 20 | 7 22 35.76 | 9.77 | +21 27 12.2 | 22.5 | 1.465650 | 9 26 | 8 8 |
| 22 | 7 22 25.99 | 9.34 | 21 27 34.7 | 21.6 | 1.465993 | 9 17 | 8 8 |
| 24 | 7 22 16.65 | 8.90 | 21 27 56.3 | 20.8 | 1.466349 | 9 9 | 8 8 |
| 26 | 7 22 7.75 | 8.43 | 21 28 17.1 | 20.0 | 1.466717 | 9 1 | 8 8 |
| 28 | 7 21 59.32 | −7.96 | 21 28 37.1 | +19.0 | 1.467098 | 8 53 | 8 8 |
| März 2 | 7 21 51.36 | 7.47 | +21 28 56.1 | 18.1 | 1.467490 | 8 45 | 8 8 |
| 4 | 7 21 43.89 | 6.97 | 21 29 14.2 | 17.2 | 1.467892 | 8 37 | 8 8 |
| 6 | 7 21 36.92 | 6.46 | 21 29 31.4 | 16.2 | 1.468305 | 8 29 | 8 8 |
| 8 | 7 21 30.46 | 5.94 | 21 29 47.6 | 15.2 | 1.468728 | 8 21 | 8 8 |
| 10 | 7 21 24.52 | −5.42 | 21 30 2.8 | +14.2 | 1.469159 | 8 13 | 8 8 |
| 12 | 7 21 19.10 | 4.88 | +21 30 17.0 | 13.2 | 1.469598 | 8 5 | 8 8 |
| 14 | 7 21 14.22 | 4.34 | 21 30 30.2 | 12.1 | 1.470045 | 7 57 | 8 8 |
| 16 | 7 21 9.88 | 3.79 | 21 30 42.3 | 11.0 | 1.470501 | 7 49 | 8 8 |
| 18 | 7 21 6.09 | 3.24 | 21 30 53.3 | 10.0 | 1.470963 | 7 42 | 8 8 |
| 20 | 7 21 2.85 | | 21 31 3.3 | | 1.471430 | 7 34 | 8 8 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| März 18 | 7h 21m 6.09s | − 3.24s | +21° 30′ 53.3″ | +10.0″ | 1.470963 | 7h 42m | 8h 8m |
| 20 | 7 21 2.85 | 2.67 | 21 31 3.3 | 8.9 | 1.471430 | 7 34 | 8 8 |
| 22 | 7 21 0.18 | 2.12 | 21 31 12.2 | 7.9 | 1.471903 | 7 26 | 8 8 |
| 24 | 7 20 58.06 | 1.54 | 21 31 20.1 | 6.9 | 1.472382 | 7 18 | 8 8 |
| 26 | 7 20 56.52 | − 0.97 | 21 31 27.0 | + 5.7 | 1.472865 | 7 10 | 8 8 |
| 28 | 7 20 55.55 | − 0.40 | +21 31 32.7 | 4.6 | 1.473351 | 7 2 | 8 8 |
| 30 | 7 20 55.15 | + 0.18 | 21 31 37.3 | 3.5 | 1.473840 | 6 54 | 8 8 |
| April 1 | 7 20 55.33 | 0.76 | 21 31 40.8 | 2.3 | 1.474332 | 6 46 | 8 8 |
| 3 | 7 20 56.09 | 1.33 | 21 31 43.1 | 1.2 | 1.474826 | 6 38 | 8 8 |
| 5 | 7 20 57.42 | + 1.91 | 21 31 44.3 | + 0.1 | 1.475321 | 6 30 | 8 8 |
| 7 | 7 20 59.33 | 2.48 | +21 31 44.4 | − 1.0 | 1.475816 | 6 23 | 8 8 |
| 9 | 7 21 1.81 | 3.05 | 21 31 43.4 | 2.1 | 1.476312 | 6 15 | 8 8 |
| 11 | 7 21 4.86 | 3.62 | 21 31 41.3 | 3.2 | 1.476807 | 6 7 | 8 8 |
| 13 | 7 21 8.48 | 4.18 | 21 31 38.1 | 4.4 | 1.477300 | 5 59 | 8 8 |
| 15 | 7 21 12.66 | + 4.73 | 21 31 33.7 | − 5.5 | 1.477792 | 5 51 | 8 8 |
| 17 | 7 21 17.39 | 5.29 | +21 31 28.2 | 6.6 | 1.478282 | 5 43 | 8 8 |
| 19 | 7 21 22.68 | 5.84 | 21 31 21.6 | 7.7 | 1.478770 | 5 36 | 8 8 |
| 21 | 7 21 28.52 | 6.38 | 21 31 13.9 | 8.8 | 1.479254 | 5 28 | 8 8 |
| 23 | 7 21 34.90 | 6.92 | 21 31 5.1 | 9.9 | 1.479735 | 5 20 | 8 8 |
| 25 | 7 21 41.82 | + 7.45 | 21 30 55.2 | −11.0 | 1.480212 | 5 12 | 8 8 |
| 27 | 7 21 49.27 | 7.98 | +21 30 44.2 | 12.0 | 1.480684 | 5 5 | 8 8 |
| 29 | 7 21 57.25 | 8.50 | 21 30 32.2 | 13.1 | 1.481150 | 4 57 | 8 8 |
| Mai 1 | 7 22 5.75 | 9.00 | 21 30 19.1 | 14.2 | 1.481610 | 4 49 | 8 8 |
| 3 | 7 22 14.75 | 9.51 | 21 30 4.9 | 15.3 | 1.482064 | 4 41 | 8 8 |
| 5 | 7 22 24.26 | + 9.99 | 21 29 49.6 | −16.3 | 1.482511 | 4 34 | 8 8 |
| 7 | 7 22 34.25 | 10.47 | +21 29 33.3 | 17.3 | 1.482951 | 4 26 | 8 8 |
| 9 | 7 22 44.72 | 10.94 | 21 29 16.0 | 18.4 | 1.483383 | 4 18 | 8 8 |
| 11 | 7 22 55.66 | 11.39 | 21 28 57.6 | 19.4 | 1.483807 | 4 10 | 8 8 |
| 13 | 7 23 7.05 | 11.83 | 21 28 38.2 | 20.4 | 1.484222 | 4 3 | 8 8 |
| 15 | 7 23 18.88 | +12.27 | 21 28 17.8 | −21.3 | 1.484628 | 3 55 | 8 8 |
| 17 | 7 23 31.15 | 12.70 | +21 27 56.5 | 22.3 | 1.485025 | 3 47 | 8 8 |
| 19 | 7 23 43.85 | 13.11 | 21 27 34.2 | 23.2 | 1.485413 | 3 40 | 8 8 |
| 21 | 7 23 56.96 | 13.51 | 21 27 11.0 | 24.1 | 1.485791 | 3 32 | 8 8 |
| 23 | 7 24 10.47 | 13.90 | 21 26 46.9 | 25.1 | 1.486158 | 3 24 | 8 8 |
| 25 | 7 24 24.37 | +14.27 | 21 26 21.8 | −26.0 | 1.486514 | 3 17 | 8 8 |
| 27 | 7 24 38.64 | 14.64 | +21 25 55.8 | 26.9 | 1.486859 | 3 9 | 8 8 |
| 29 | 7 24 53.28 | 14.99 | 21 25 28.9 | 27.7 | 1.487193 | 3 1 | 8 8 |
| 31 | 7 25 8.27 | 15.32 | 21 25 1.2 | 28.5 | 1.487515 | 2 54 | 8 8 |
| Juni 2 | 7 25 23.59 | 15.65 | 21 24 32.7 | 29.3 | 1.487824 | 2 46 | 8 8 |
| 4 | 7 25 39.24 | | 21 24 3.4 | | 1.488121 | 2 39 | 8 8 |

Wahrer geozentrischer Ort.

| 0^h Mittl. Zeit | | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|---|
| | | h m s | s | ° ′ ″ | ″ | | h m | h m |
| Juni | 2 | 7 25 23.59 | +15.65 | +21 24 32.7 | −29.3 | 1.487824 | 2 46 | 8 8 |
| | 4 | 7 25 39.24 | 15.95 | 21 24 3.4 | 30.1 | 1.488121 | 2 39 | 8 8 |
| | 6 | 7 25 55.19 | 16.23 | 21 23 33.3 | 30.9 | 1.488406 | 2 31 | 8 7 |
| | 8 | 7 26 11.42 | 16.51 | 21 23 2.4 | 31.6 | 1.488678 | 2 23 | 8 7 |
| | 10 | 7 26 27.93 | +16.77 | 21 22 30.8 | −32.3 | 1.488936 | 2 16 | 8 7 |
| | 12 | 7 26 44.70 | 17.02 | +21 21 58.5 | 33.0 | 1.489181 | 2 8 | 8 7 |
| | 14 | 7 27 1.72 | 17.26 | 21 21 25.5 | 33.7 | 1.489412 | 2 1 | 8 7 |
| | 16 | 7 27 18.98 | 17.48 | 21 20 51.8 | 34.3 | 1.489630 | 1 53 | 8 7 |
| | 18 | 7 27 36.46 | 17.68 | 21 20 17.5 | 35.1 | 1.489834 | 1 45 | 8 7 |
| | 20 | 7 27 54.14 | +17.87 | 21 19 42.4 | −35.6 | 1.490024 | 1 38 | 8 7 |
| | 22 | 7 28 12.01 | 18.05 | +21 19 6.8 | 36.2 | 1.490199 | 1 30 | 8 7 |
| | 24 | 7 28 30.06 | 18.20 | 21 18 30.6 | 36.7 | 1.490360 | 1 23 | 8 7 |
| | 26 | 7 28 48.26 | 18.35 | 21 17 53.9 | 37.2 | 1.490506 | 1 15 | 8 7 |
| | 28 | 7 29 6.61 | 18.47 | 21 17 16.7 | 37.6 | 1.490638 | 1 7 | 8 7 |
| | 30 | 7 29 25.08 | +18.58 | 21 16 39.1 | −38.1 | 1.490755 | 1 0 | 8 7 |
| Juli | 2 | 7 29 43.66 | 18.67 | +21 16 1.0 | 38.5 | 1.490856 | 0 52 | 8 7 |
| | 4 | 7 30 2.33 | 18.75 | 21 15 22.5 | 38.9 | 1.490942 | 0 45 | 8 6 |
| | 6 | 7 30 21.08 | 18.81 | 21 14 43.6 | 39.3 | 1.491013 | 0 37 | 8 6 |
| | 8 | 7 30 39.89 | 18.86 | 21 14 4.3 | 39.5 | 1.491069 | 0 30 | 8 6 |
| | 10 | 7 30 58.75 | +18.89 | 21 13 24.8 | −39.8 | 1.491110 | 0 22 | 8 6 |
| | 12 | 7 31 17.64 | 18.91 | +21 12 45.0 | 40.1 | 1.491135 | 0 14 | 8 6 |
| | 14 | 7 31 36.55 | 18.91 | 21 12 4.9 | 40.3 | 1.491145 | 0 7 | 8 6 |
| | 16 | 7 31 55.46 | 18.89 | 21 11 24.6 | 40.4 | 1.491140 | 23 59 | 8 6 |
| | 18 | 7 32 14.35 | 18.86 | 21 10 44.2 | 40.6 | 1.491119 | 23 52 | 8 6 |
| | 20 | 7 32 33.21 | +18.82 | 21 10 3.6 | −40.7 | 1.491083 | 23 44 | 8 6 |
| | 22 | 7 32 52.03 | 18.75 | +21 9 22.9 | 40.8 | 1.491032 | 23 37 | 8 6 |
| | 24 | 7 33 10.78 | 18.67 | 21 8 42.1 | 40.8 | 1.490966 | 23 29 | 8 6 |
| | 26 | 7 33 29.45 | 18.58 | 21 8 1.3 | 40.8 | 1.490885 | 23 21 | 8 6 |
| | 28 | 7 33 48.03 | 18.46 | 21 7 20.5 | 40.8 | 1.490788 | 23 14 | 8 6 |
| | 30 | 7 34 6.49 | +18.34 | 21 6 39.7 | −40.7 | 1.490676 | 23 6 | 8 5 |
| Aug. | 1 | 7 34 24.83 | 18.19 | +21 5 59.0 | 40.5 | 1.490549 | 22 59 | 8 5 |
| | 3 | 7 34 43.02 | 18.03 | 21 5 18.5 | 40.4 | 1.490407 | 22 51 | 8 5 |
| | 5 | 7 35 1.05 | 17.86 | 21 4 38.1 | 40.2 | 1.490250 | 22 43 | 8 5 |
| | 7 | 7 35 18.91 | 17.67 | 21 3 57.9 | 40.0 | 1.490079 | 22 36 | 8 5 |
| | 9 | 7 35 36.58 | +17.46 | 21 3 17.9 | −39.7 | 1.489894 | 22 28 | 8 5 |
| | 11 | 7 35 54.04 | 17.24 | +21 2 38.2 | 39.3 | 1.489694 | 22 21 | 8 5 |
| | 13 | 7 36 11.28 | 17.01 | 21 1 58.9 | 39.0 | 1.489480 | 22 13 | 8 5 |
| | 15 | 7 36 28.29 | 16.77 | 21 1 19.9 | 38.6 | 1.489252 | 22 6 | 8 5 |
| | 17 | 7 36 45.06 | 16.49 | 21 0 41.3 | 38.2 | 1.489010 | 21 58 | 8 5 |
| | 19 | 7 37 1.55 | | 21 0 3.1 | | 1.488755 | 21 50 | 8 5 |

## Wahrer geozentrischer Ort.

| $0^h$ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| Aug. 17 | 7h 36m 45s.06 | +16s.49 | +21° 0′ 41″.3 | −38″.2 | 1.489010 | 21h 58m | 8h 5m |
| 19 | 7 37 1.55 | 16.21 | 21 0 3.1 | 37.7 | 1.488755 | 21 50 | 8 5 |
| 21 | 7 37 17.76 | 15.93 | 20 59 25.4 | 37.2 | 1.488487 | 21 43 | 8 5 |
| 23 | 7 37 33.69 | 15.62 | 20 58 48.2 | 36.7 | 1.488205 | 21 35 | 8 5 |
| 25 | 7 37 49.31 | +15.29 | 20 58 11.5 | −36.0 | 1.487910 | 21 27 | 8 4 |
| 27 | 7 38 4.60 | 14.95 | +20 57 35.5 | 35.4 | 1.487603 | 21 20 | 8 4 |
| 29 | 7 38 19.55 | 14.61 | 20 57 0.1 | 34.7 | 1.487284 | 21 12 | 8 4 |
| 31 | 7 38 34.16 | 14.24 | 20 56 25.4 | 34.0 | 1.486952 | 21 5 | 8 4 |
| Sept. 2 | 7 38 48.40 | 13.87 | 20 55 51.4 | 33.2 | 1.486608 | 20 57 | 8 4 |
| 4 | 7 39 2.27 | +13.48 | 20 55 18.2 | −32.4 | 1.486254 | 20 49 | 8 4 |
| 6 | 7 39 15.75 | 13.08 | +20 54 45.8 | 31.6 | 1.485889 | 20 41 | 8 4 |
| 8 | 7 39 28.83 | 12.67 | 20 54 14.2 | 30.7 | 1.485513 | 20 34 | 8 4 |
| 10 | 7 39 41.50 | 12.24 | 20 53 43.5 | 29.8 | 1.485127 | 20 26 | 8 4 |
| 12 | 7 39 53.74 | 11.81 | 20 53 13.7 | 28.9 | 1.484731 | 20 19 | 8 4 |
| 14 | 7 40 5.55 | +11.37 | 20 52 44.8 | −28.0 | 1.484325 | 20 11 | 8 4 |
| 16 | 7 40 16.92 | 10.90 | +20 52 16.8 | 27.0 | 1.483910 | 20 3 | 8 4 |
| 18 | 7 40 27.82 | 10.44 | 20 51 49.8 | 25.9 | 1.483486 | 19 55 | 8 4 |
| 20 | 7 40 38.26 | 9.96 | 20 51 23.9 | 24.8 | 1.483054 | 19 48 | 8 4 |
| 22 | 7 40 48.22 | 9.46 | 20 50 59.1 | 23.7 | 1.482614 | 19 40 | 8 4 |
| 24 | 7 40 57.68 | + 8.96 | 20 50 35.4 | −22.5 | 1.482166 | 19 32 | 8 4 |
| 26 | 7 41 6.64 | 8.46 | +20 50 12.9 | 21.4 | 1.481711 | 19 25 | 8 4 |
| 28 | 7 41 15.10 | 7.94 | 20 49 51.5 | 20.2 | 1.481250 | 19 17 | 8 3 |
| 30 | 7 41 23.04 | 7.41 | 20 49 31.3 | 19.0 | 1.480784 | 19 9 | 8 3 |
| Okt. 2 | 7 41 30.45 | 6.88 | 20 49 12.3 | 17.8 | 1.480312 | 19 1 | 8 3 |
| 4 | 7 41 37.33 | + 6.34 | 20 48 54.5 | −16.5 | 1.479835 | 18 54 | 8 3 |
| 6 | 7 41 43.67 | 5.80 | +20 48 38.0 | 15.2 | 1.479354 | 18 46 | 8 3 |
| 8 | 7 41 49.47 | 5.25 | 20 48 22.8 | 13.9 | 1.478869 | 18 38 | 8 3 |
| 10 | 7 41 54.72 | 4.69 | 20 48 8.9 | 12.6 | 1.478380 | 18 30 | 8 3 |
| 12 | 7 41 59.41 | 4.14 | 20 47 56.3 | 11.2 | 1.477888 | 18 22 | 8 3 |
| 14 | 7 42 3.55 | + 3.57 | 20 47 45.1 | − 9.9 | 1.477394 | 18 15 | 8 3 |
| 16 | 7 42 7.12 | 3.01 | +20 47 35.2 | 8.5 | 1.476899 | 18 7 | 8 3 |
| 18 | 7 42 10.13 | 2.44 | 20 47 26.7 | 7.0 | 1.476402 | 17 59 | 8 3 |
| 20 | 7 42 12.57 | 1.86 | 20 47 19.7 | 5.7 | 1.475904 | 17 51 | 8 3 |
| 22 | 7 42 14.43 | 1.29 | 20 47 14.0 | 4.3 | 1.475407 | 17 43 | 8 3 |
| 24 | 7 42 15.72 | + 0.71 | 20 47 9.7 | − 2.9 | 1.474911 | 17 35 | 8 3 |
| 26 | 7 42 16.43 | + 0.13 | +20 47 6.8 | − 1.4 | 1.474415 | 17 27 | 8 3 |
| 28 | 7 42 16.56 | − 0.45 | 20 47 5.4 | 0.0 | 1.473921 | 17 20 | 8 3 |
| 30 | 7 42 16.11 | 1.02 | 20 47 5.4 | + 1.4 | 1.473430 | 17 12 | 8 3 |
| Nov. 1 | 7 42 15.09 | 1.58 | 20 47 6.8 | 2.7 | 1.472943 | 17 4 | 8 3 |
| 3 | 7 42 13.51 | | 20 47 9.5 | | 1.472459 | 16 56 | 8 3 |

## Wahrer geozentrischer Ort.

| 0h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Östl. Stunden-Winkel | Halber Tag-bogen |
|---|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ″ | | h m | h m |
| Nov. 1 | 7 42 15.09 | − 1.58 | +20 47 6.8 | + 2.7 | 1.472943 | 17 4 | 8 3 |
| 3 | 7 42 13.51 | 2.15 | 20 47 9.5 | 4.2 | 1.472459 | 16 56 | 8 3 |
| 5 | 7 42 11.36 | 2.72 | 20 47 13.7 | 5.6 | 1.471979 | 16 48 | 8 3 |
| 7 | 7 42 8.64 | 3.27 | 20 47 19.3 | 6.9 | 1.471505 | 16 40 | 8 3 |
| 9 | 7 42 5.37 | − 3.83 | 20 47 26.2 | + 8.3 | 1.471036 | 16 32 | 8 3 |
| 11 | 7 42 1.54 | 4.37 | +20 47 34.5 | 9.7 | 1.470573 | 16 24 | 8 3 |
| 13 | 7 41 57.17 | 4.91 | 20 47 44.2 | 11.1 | 1.470117 | 16 16 | 8 3 |
| 15 | 7 41 52.26 | 5.44 | 20 47 55.3 | 12.4 | 1.469668 | 16 8 | 8 3 |
| 17 | 7 41 46.82 | 5.97 | 20 48 7.7 | 13.7 | 1.469227 | 16 0 | 8 3 |
| 19 | 7 41 40.85 | − 6.49 | 20 48 21.4 | +15.0 | 1.468795 | 15 52 | 8 3 |
| 21 | 7 41 34.36 | 7.00 | +20 48 36.4 | 16.3 | 1.468372 | 15 44 | 8 3 |
| 23 | 7 41 27.36 | 7.50 | 20 48 52.7 | 17.5 | 1.467959 | 15 36 | 8 3 |
| 25 | 7 41 19.86 | 7.99 | 20 49 10.2 | 18.7 | 1.467557 | 15 28 | 8 3 |
| 27 | 7 41 11.87 | 8.46 | 20 49 28.9 | 19.9 | 1.467165 | 15 20 | 8 3 |
| 29 | 7 41 3.41 | − 8.91 | 20 49 48.8 | +21.0 | 1.466785 | 15 12 | 8 3 |
| Dez. 1 | 7 40 54.50 | 9.35 | +20 50 9.8 | 22.1 | 1.466417 | 15 4 | 8 4 |
| 3 | 7 40 45.15 | 9.78 | 20 50 31.9 | 23.1 | 1.466062 | 14 56 | 8 4 |
| 5 | 7 40 35.37 | 10.19 | 20 50 55.0 | 24.2 | 1.465719 | 14 48 | 8 4 |
| 7 | 7 40 25.18 | 10.58 | 20 51 19.2 | 25.1 | 1.465390 | 14 40 | 8 4 |
| 9 | 7 40 14.60 | −10.96 | 20 51 44.3 | +26.1 | 1.465075 | 14 32 | 8 4 |
| 11 | 7 40 3.64 | 11.33 | +20 52 10.4 | 27.0 | 1.464775 | 14 24 | 8 4 |
| 13 | 7 39 52.31 | 11.68 | 20 52 37.4 | 27.9 | 1.464489 | 14 16 | 8 4 |
| 15 | 7 39 40.63 | 12.00 | 20 53 5.3 | 28.6 | 1.464218 | 14 8 | 8 4 |
| 17 | 7 39 28.63 | 12.32 | 20 53 33.9 | 29.4 | 1.463964 | 14 0 | 8 4 |
| 19 | 7 39 16.31 | −12.61 | 20 54 3.3 | +30.1 | 1.463726 | 13 52 | 8 4 |
| 21 | 7 39 3.70 | 12.88 | +20 54 33.4 | 30.8 | 1.463504 | 13 43 | 8 4 |
| 23 | 7 38 50.82 | 13.12 | 20 55 4.2 | 31.4 | 1.463299 | 13 35 | 8 4 |
| 25 | 7 38 37.70 | 13.34 | 20 55 35.6 | 32.0 | 1.463111 | 13 27 | 8 4 |
| 27 | 7 38 24.36 | 13.54 | 20 56 7.6 | 32.5 | 1.462941 | 13 19 | 8 4 |
| 29 | 7 38 10.82 | −13.71 | 20 56 40.1 | +32.9 | 1.462788 | 13 11 | 8 4 |
| 31 | 7 37 57.11 | 13.87 | +20 57 13.0 | 33.2 | 1.462653 | 13 3 | 8 4 |
| 33 | 7 37 43.24 | | 20 57 46.2 | | 1.462537 | 12 55 | 8 4 |

## MERKUR 1911.

Mittlere Ekliptik und Äquinoktium 1910.0.

| 0h Mittl. Zeit | Log. Rad. v. | Länge in d. Bahn | Red. a. d. Ekl. | Breite | 0h Mittl. Zeit | Log. Rad. v. | Länge in d. Bahn | Red. a. d. Ekl. | Breite |
|---|---|---|---|---|---|---|---|---|---|
| Jan. 2 | 9.4910 | 59° 25' | − 5' | +1° 28' | Juli 6 | 9.5053 | 115° 45' | − 9' | +6° 31' |
| 7 | 9.4904 | 91 0 | −13 | +4 50 | 11 | 9.5356 | 143 10 | + 3 | +6 58 |
| 12 | 9.5102 | 121 11 | − 7 | +6 44 | 16 | 9.5701 | 166 43 | +11 | +6 6 |
| 17 | 9.5421 | 147 53 | + 5 | +6 53 | 21 | 9.6020 | 186 53 | +13 | +4 32 |
| 22 | 9.5764 | 170 44 | +12 | +5 50 | 26 | 9.6285 | 204 30 | + 9 | +2 42 |
| 27 | 9.6075 | 190 22 | +12 | +4 12 | 31 | 9.6484 | 220 20 | + 3 | +0 51 |
| Febr. 1 | 9.6327 | 207 35 | + 8 | +2 21 | Aug. 5 | 9.6616 | 235 0 | − 3 | −0 56 |
| 6 | 9.6514 | 223 9 | + 2 | +0 30 | 10 | 9.6682 | 249 0 | − 9 | −2 35 |
| 11 | 9.6633 | 237 39 | − 5 | −1 16 | 15 | 9.6683 | 262 48 | −12 | −4 4 |
| 16 | 9.6687 | 251 36 | −10 | −2 53 | 20 | 9.6618 | 276 48 | −13 | −5 19 |
| 21 | 9.6675 | 265 24 | −12 | −4 19 | 25 | 9.6488 | 291 26 | −10 | −6 18 |
| 26 | 9.6599 | 279 29 | −12 | −5 32 | 30 | 9.6290 | 307 14 | − 4 | −6 54 |
| März 3 | 9.6456 | 294 18 | − 9 | −6 27 | Sept. 4 | 9.6027 | 324 48 | + 3 | −6 57 |
| 8 | 9.6246 | 310 22 | − 3 | −6 57 | 9 | 9.5709 | 344 54 | +11 | −6 12 |
| 13 | 9.5971 | 328 21 | + 5 | −6 52 | 14 | 9.5364 | 8 21 | +13 | −4 23 |
| 18 | 9.5645 | 349 1 | +12 | −5 57 | 19 | 9.5059 | 35 41 | + 5 | −1 24 |
| 23 | 9.5301 | 13 11 | +12 | −3 55 | 24 | 9.4889 | 66 17 | − 8 | +2 17 |
| 28 | 9.5013 | 41 14 | + 3 | −0 44 | 29 | 9.4932 | 97 49 | −13 | +5 24 |
| April 2 | 9.4880 | 72 13 | −10 | +2 57 | Okt. 4 | 9.5165 | 127 21 | − 4 | +6 54 |
| 7 | 9.4963 | 103 36 | −12 | +5 49 | 9 | 9.5496 | 153 11 | + 7 | +6 44 |
| 12 | 9.5223 | 132 30 | − 2 | +6 59 | 14 | 9.5836 | 175 16 | +13 | +5 31 |
| 17 | 9.5561 | 157 36 | + 8 | +6 34 | 19 | 9.6135 | 194 18 | +12 | +3 48 |
| 22 | 9.5896 | 179 3 | +13 | +5 13 | 24 | 9.6374 | 211 7 | + 7 | +1 57 |
| 27 | 9.6185 | 197 36 | +11 | +3 28 | 29 | 9.6545 | 226 24 | 0 | +0 6 |
| Mai 2 | 9.6411 | 214 4 | + 6 | +1 36 | Nov. 3 | 9.6651 | 240 44 | − 6 | −1 38 |
| 7 | 9.6570 | 229 9 | − 1 | −0 14 | 8 | 9.6690 | 254 36 | −10 | −3 13 |
| 12 | 9.6663 | 243 22 | − 7 | −1 56 | 13 | 9.6664 | 268 26 | −13 | −4 36 |
| 17 | 9.6690 | 257 11 | −11 | −3 29 | 18 | 9.6573 | 282 38 | −12 | −5 45 |
| 22 | 9.6652 | 271 3 | −13 | −4 50 | 23 | 9.6415 | 297 41 | − 8 | −6 36 |
| 27 | 9.6549 | 285 23 | −12 | −5 57 | 28 | 9.6191 | 314 6 | − 1 | −7 0 |
| Juni 1 | 9.6378 | 300 38 | − 7 | −6 43 | Dez. 3 | 9.5903 | 332 36 | + 7 | −6 45 |
| 6 | 9.6141 | 317 24 | 0 | −7 0 | 8 | 9.5569 | 353 59 | +12 | −5 37 |
| 11 | 9.5843 | 336 22 | + 8 | −6 37 | 13 | 9.5230 | 18 59 | +11 | −3 19 |
| 16 | 9.5504 | 358 23 | +13 | −5 16 | 18 | 9.4968 | 47 49 | 0 | +0 4 |
| 21 | 9.5172 | 24 7 | + 9 | −2 45 | 23 | 9.4880 | 79 9 | −12 | +3 42 |
| 26 | 9.4935 | 53 35 | − 3 | +0 46 | 28 | 9.5008 | 110 12 | −10 | +6 14 |
| Juli 1 | 9.4888 | 85 6 | −12 | +4 17 | 33 | 9.5294 | 138 19 | 0 | +7 0 |
| 6 | 9.5053 | 115 45 | − 9 | +6 31 | 38 | 9.5637 | 162 35 | +10 | +6 20 |

$\Omega = 47° \; 15'.8; \quad i = 7° \; 0'.18; \quad m = \frac{1}{6000000}$

| VENUS 1911. | | | | | ERDE 1911. | |
|---|---|---|---|---|---|---|
| Mittl. Ekliptik und Äquin. 1910.0. | | | | | Mittl. Äqu. 1910.0. | |
| 0h Mittl. Zeit | Log. Radius v. | Länge in der Bahn | Red. auf d. Eklipt. | Breite | Log. Radius vect. | Länge |
| | | ° ′ | ′ | ° ′ | | ° ′ |
| Jan. −3 | 9.86218 | 294 0.9 | −2.9 | −2 5.7 | 9.99272 | 95 51.1 |
| 7 | 9.86230 | 309 49.3 | −2.9 | −2 44.6 | 9.99270 | 106 2.8 |
| 17 | 9.86218 | 325 37.7 | −2.0 | −3 11.0 | 9.99290 | 116 13.9 |
| 27 | 9.86186 | 341 27.1 | −0.5 | −3 23.0 | 9.99336 | 126 24.2 |
| Febr. 6 | 9.86133 | 357 18.3 | +1.2 | −3 19.6 | 9.99398 | 136 33.2 |
| 16 | 9.86066 | 13 12.2 | +2.5 | −3 0.8 | 9.99478 | 146 39.8 |
| 26 | 9.85987 | 29 9.4 | +3.0 | −2 28.2 | 9.99578 | 156 44.1 |
| März 8 | 9.85905 | 45 10.1 | +2.6 | −1 43.9 | 9.99686 | 166 45.7 |
| 18 | 9.85824 | 61 14.4 | +1.5 | −0 51.4 | 9.99803 | 176 43.8 |
| 28 | 9.85752 | 77 22.2 | −0.2 | +0 5.3 | 9.99929 | 186 38.8 |
| April 7 | 9.85694 | 93 32.9 | −1.7 | +1 1.8 | 0.00052 | 196 30.5 |
| 17 | 9.85654 | 109 45.8 | −2.8 | +1 53.5 | 0.00174 | 206 18.5 |
| 27 | 9.85637 | 126 0.0 | −3.0 | +2 36.2 | 0.00293 | 216 3.5 |
| Mai 7 | 9.85643 | 142 14.4 | −2.2 | +3 6.5 | 0.00399 | 225 45.6 |
| 17 | 9.85672 | 158 28.1 | −0.8 | +3 21.9 | 0.00494 | 235 24.6 |
| 27 | 9.85721 | 174 40.0 | +0.9 | +3 21.2 | 0.00578 | 245 1.5 |
| Juni 6 | 9.85787 | 190 49.3 | +2.3 | +3 4.6 | 0.00641 | 254 36.5 |
| 16 | 9.85864 | 206 55.4 | +3.0 | +2 33.5 | 0.00687 | 264 9.8 |
| 26 | 9.85947 | 222 57.9 | +2.8 | +1 50.6 | 0.00716 | 273 42.3 |
| Juli 6 | 9.86028 | 238 56.8 | +1.7 | +0 59.2 | 0.00720 | 283 14.4 |
| 16 | 9.86101 | 254 52.2 | +0.1 | +0 3.5 | 0.00706 | 292 46.4 |
| 26 | 9.86162 | 270 44.7 | −1.5 | −0 52.3 | 0.00674 | 302 19.2 |
| Aug. 5 | 9.86205 | 286 34.9 | −2.6 | −1 44.0 | 0.00619 | 311 53.2 |
| 15 | 9.86227 | 302 23.7 | −3.0 | −2 27.7 | 0.00548 | 321 28.6 |
| 25 | 9.86226 | 318 12.0 | −2.5 | −3 0.3 | 0.00462 | 331 6.4 |
| Sept. 4 | 9.86204 | 334 0.8 | −1.2 | −3 19.3 | 0.00359 | 340 46.6 |
| 14 | 9.86161 | 349 51.1 | +0.4 | −3 23.1 | 0.00248 | 350 29.4 |
| 24 | 9.86100 | 5 43.6 | +1.9 | −3 11.5 | 0.00130 | 0 15.7 |
| Okt. 4 | 9.86026 | 21 39.1 | +2.9 | −2 45.1 | 0.00004 | 10 5.2 |
| 14 | 9.85945 | 37 38.1 | +2.9 | −2 5.9 | 9.99879 | 19 57.9 |
| 24 | 9.85863 | 53 40.6 | +2.1 | −1 16.8 | 9.99758 | 29 54.3 |
| Nov. 3 | 9.85787 | 69 46.7 | +0.6 | −0 21.6 | 9.99641 | 39 53.9 |
| 13 | 9.85721 | 85 56.0 | −1.0 | +0 35.6 | 9.99536 | 49 56.4 |
| 23 | 9.85672 | 102 7.9 | −2.4 | +1 30.1 | 9.99446 | 60 1.9 |
| Dez. 3 | 9.85644 | 118 21.6 | −3.0 | +2 17.5 | 9.99368 | 70 9.6 |
| 13 | 9.85638 | 134 36.0 | −2.7 | +2 54.0 | 9.99314 | 80 19.0 |
| 23 | 9.85656 | 150 50.1 | −1.5 | +3 16.7 | 9.99280 | 90 29.9 |
| 33 | 9.85695 | 167 2.9 | +0.1 | +3 23.6 | 9.99265 | 100 41.4 |

Venus: $\Omega = 75^\circ\, 52'.0$; $i = 3^\circ\, 23'.6$; $m = \frac{1}{408000}$

Erde: $m = \frac{1}{329390}$

## MARS 1911.

### Mittlere Ekliptik und Äquinoktium 1910.0.

| $0^h$ Mittl. Zeit | Log. Radius vect. | Länge in der Bahn | Red. auf die Ekliptik | Breite |
|---|---|---|---|---|
| | | ° ′ | ′ | ° ′ |
| Jan. −3 | 0.19148 | 226 55.7 | +0.1 | +0 3.7 |
| 7 | 0.18794 | 231 59.1 | −0.1 | −0 6.1 |
| 17 | 0.18430 | 237 7.5 | −0.3 | −0 16.0 |
| 27 | 0.18059 | 242 21.2 | −0.4 | −0 25.9 |
| Febr. 6 | 0.17684 | 247 40.4 | −0.5 | −0 35.8 |
| 16 | 0.17307 | 253 5.1 | −0.7 | −0 45.5 |
| 26 | 0.16932 | 258 35.5 | −0.8 | −0 55.0 |
| März 8 | 0.16564 | 264 11.6 | −0.8 | −1 4.2 |
| 18 | 0.16205 | 269 53.4 | −0.9 | −1 12.9 |
| 28 | 0.15860 | 275 40.7 | −0.9 | −1 20.9 |
| April 7 | 0.15533 | 281 33.5 | −0.9 | −1 28.3 |
| 17 | 0.15229 | 287 31.4 | −0.8 | −1 34.8 |
| 27 | 0.14951 | 293 34.2 | −0.7 | −1 40.4 |
| Mai 7 | 0.14704 | 299 41.4 | −0.6 | −1 44.9 |
| 17 | 0.14492 | 305 52.5 | −0.4 | −1 48.2 |
| 27 | 0.14317 | 312 6.9 | −0.2 | −1 50.2 |
| Juni 6 | 0.14182 | 318 24.1 | 0.0 | −1 51.0 |
| 16 | 0.14091 | 324 43.2 | +0.2 | −1 50.4 |
| 26 | 0.14044 | 331 3.5 | +0.4 | −1 48.5 |
| Juli 6 | 0.14042 | 337 24.2 | +0.5 | −1 45.2 |
| 16 | 0.14086 | 343 44.5 | +0.7 | −1 40.7 |
| 26 | 0.14174 | 350 3.8 | +0.8 | −1 34.9 |
| Aug. 5 | 0.14305 | 356 21.1 | +0.9 | −1 28.1 |
| 15 | 0.14477 | 2 35.8 | +0.9 | −1 20.2 |
| 25 | 0.14687 | 8 47.2 | +0.9 | −1 11.5 |
| Sept. 4 | 0.14931 | 14 54.7 | +0.8 | −1 2.0 |
| 14 | 0.15207 | 20 57.8 | +0.7 | −0 51.9 |
| 24 | 0.15509 | 26 56.2 | +0.6 | −0 41.4 |
| Okt. 4 | 0.15834 | 32 49.4 | +0.5 | −0 30.6 |
| 14 | 0.16178 | 38 37.2 | +0.3 | −0 19.7 |
| 24 | 0.16536 | 44 19.4 | +0.1 | −0 8.8 |
| Nov. 3 | 0.16904 | 49 55.9 | 0.0 | +0 2.1 |
| 13 | 0.17279 | 55 26.7 | −0.2 | +0 12.7 |
| 23 | 0.17656 | 60 51.8 | −0.4 | +0 23.1 |
| Dez. 3 | 0.18031 | 66 11.4 | −0.5 | +0 33.1 |
| 13 | 0.18403 | 71 25.5 | −0.6 | +0 42.6 |
| 23 | 0.18767 | 76 34.3 | −0.7 | +0 51.6 |
| 33 | 0.19122 | 81 38.1 | −0.8 | +1 0.1 |

$\Omega = 48° \, 51'.6; \quad i = 1° \, 51'.0; \quad m = \frac{1}{3093500}$

## JUPITER 1911.

Mittlere Ekliptik und Äquinoktium 1910.0.

| 0h Mittl. Zeit | Log. Radius vect. | Länge in der Bahn | Red. auf die Ekliptik | Breite | $B_0$ |
|---|---|---|---|---|---|
| | | ° ′ ″ | ″ | ° ′ ″ | ″ |
| Jan. −3 | 0.735661 | 210 14 39.2 | +17.8 | +1 13 27.7 | +2.1 |
| 7 | 0.735572 | 211 0 12.0 | +18.3 | +1 13 5.2 | +2.0 |
| 17 | 0.735481 | 211 45 45.9 | +18.8 | +1 12 42.0 | +2.0 |
| 27 | 0.735385 | 212 31 21.0 | +19.3 | +1 12 17.9 | +1.9 |
| Febr. 6 | 0.735285 | 213 16 57.3 | +19.8 | +1 11 53.1 | +1.9 |
| 16 | 0.735182 | 214 2 35.0 | +20.3 | +1 11 27.5 | +1.9 |
| 26 | 0.735075 | 214 48 13.9 | +20.8 | +1 11 1.1 | +1.9 |
| März 8 | 0.734964 | 215 33 54.2 | +21.2 | +1 10 34.0 | +1.8 |
| 18 | 0.734849 | 216 19 36.0 | +21.7 | +1 10 6.1 | +1.8 |
| 28 | 0.734731 | 217 5 19.3 | +22.1 | +1 9 37.5 | +1.7 |
| April 7 | 0.734610 | 217 51 4.1 | +22.5 | +1 9 8.1 | +1.7 |
| 17 | 0.734485 | 218 36 50.4 | +22.8 | +1 8 38.0 | +1.6 |
| 27 | 0.734356 | 219 22 38.3 | +23.2 | +1 8 7.1 | +1.6 |
| Mai 7 | 0.734224 | 220 8 27.9 | +23.5 | +1 7 35.4 | +1.5 |
| 17 | 0.734089 | 220 54 19.2 | +23.9 | +1 7 3.0 | +1.5 |
| 27 | 0.733950 | 221 40 12.2 | +24.2 | +1 6 29.9 | +1.4 |
| Juni 6 | 0.733807 | 222 26 7.0 | +24.5 | +1 5 56.0 | +1.4 |
| 16 | 0.733661 | 223 12 3.6 | +24.8 | +1 5 21.4 | +1.3 |
| 26 | 0.733512 | 223 58 2.1 | +25.1 | +1 4 46.1 | +1.3 |
| Juli 6 | 0.733359 | 224 44 2.6 | +25.3 | +1 4 10.1 | +1.2 |
| 16 | 0.733203 | 225 30 5.0 | +25.6 | +1 3 33.4 | +1.2 |
| 26 | 0.733043 | 226 16 9.4 | +25.8 | +1 2 55.9 | +1.1 |
| Aug. 5 | 0.732880 | 227 2 15.8 | +26.0 | +1 2 17.7 | +1.1 |
| 15 | 0.732714 | 227 48 24.4 | +26.1 | +1 1 38.8 | +1.0 |
| 25 | 0.732545 | 228 34 35.1 | +26.3 | +1 0 59.2 | +1.0 |
| Sept 4 | 0.732372 | 229 20 47.9 | +26.4 | +1 0 19.0 | +0.9 |
| 14 | 0.732196 | 230 7 2.9 | +26.6 | +0 59 38.1 | +0.9 |
| 24 | 0.732017 | 230 53 20.3 | +26.7 | +0 58 56.5 | +0.8 |
| Okt. 4 | 0.731835 | 231 39 39.9 | +26.8 | +0 58 14.2 | +0.8 |
| 14 | 0.731650 | 232 26 1.9 | +26.8 | +0 57 31.2 | +0.7 |
| 24 | 0.731462 | 233 12 26.3 | +26.9 | +0 56 47.6 | +0.7 |
| Nov. 3 | 0.731270 | 233 58 53.1 | +26.9 | +0 56 3.3 | +0.6 |
| 13 | 0.731075 | 234 45 22.4 | +26.9 | +0 55 18.4 | +0.6 |
| 23 | 0.730878 | 235 31 54.2 | +26.9 | +0 54 32.8 | +0.6 |
| Dez. 3 | 0.730678 | 236 18 28.5 | +26.9 | +0 53 46.6 | +0.6 |
| 13 | 0.730474 | 237 5 5.5 | +26.8 | +0 52 59.7 | +0.5 |
| 23 | 0.730267 | 237 51 45.1 | +26.7 | +0 52 12.2 | +0.5 |
| 33 | 0.730058 | 238 38 27.4 | +26.6 | +0 51 24.0 | +0.4 |

$\Omega = 99^\circ\ 32'\ 41''.4;\quad i = 1^\circ\ 18'\ 29''.7;\quad m = \frac{1}{1047.355}$

Mittlere Ekliptik und Äquinoktium 1910.0.

## SATURN 1911.

| 0h Mittl. Zeit | Log. Radius vect. | Länge in der Bahn | Red. auf die Ekliptik | Breite | $B_0$ |
|---|---|---|---|---|---|
| 1910 Dez. 18 | 0.965141 | 34° 56′ 4″.5 | +39″.8 | −2° 26′ 12″.9 | +0″.3 |
| 1911 Jan. 27 | 0.964662 | 36 21 44.1 | +44.2 | −2 25 23.6 | +0.1 |
| März 8 | 0.964191 | 37 47 34.7 | +48.6 | −2 24 28.8 | −0.1 |
| April 17 | 0.963728 | 39 13 36.4 | +52.8 | −2 23 28.4 | −0.2 |
| Mai 27 | 0.963273 | 40 39 49.1 | +56.8 | −2 22 22.5 | −0.4 |
| Juli 6 | 0.962827 | 42 6 12.5 | +60.7 | −2 21 11.1 | −0.6 |
| Aug. 15 | 0.962391 | 43 32 46.5 | +64.5 | −2 19 54.1 | −0.8 |
| Sept. 24 | 0.961964 | 44 59 30.9 | +68.1 | −2 18 31.7 | −0.9 |
| Nov. 3 | 0.961546 | 46 26 25.5 | +71.5 | −2 17 3.8 | −1.1 |
| Dez. 13 | 0.961139 | 47 53 30.0 | +74.8 | −2 15 30.4 | −1.2 |
| 53 | 0.960742 | 49 20 44.3 | +77.9 | −2 13 51.6 | −1.4 |

☊ = 112° 52′ 26″.8; $i = 2° 29' 31''.3$; $m = \frac{1}{3501.6}$

## URANUS 1911.

| 0h Mittl. Zeit | Log. Radius vect. | Länge in der Bahn | Red. auf die Ekliptik | Breite | $B_0$ |
|---|---|---|---|---|---|
| 1910 Dez. 18 | 1.294237 | 294° 57′ 50″.4 | −9″.3 | −0° 30′ 37″.8 | +3″.0 |
| 1911 Jan. 27 | 1.294374 | 295 24 33.4 | −9.3 | −0 30 54.0 | +3.0 |
| März 8 | 1.294510 | 295 51 15.4 | −9.3 | −0 31 10.0 | +3.0 |
| April 17 | 1.294646 | 296 17 56.6 | −9.3 | −0 31 25.9 | +3.0 |
| Mai 27 | 1.294780 | 296 44 36.9 | −9.4 | −0 31 41.7 | +3.0 |
| Juli 6 | 1.294914 | 297 11 16.4 | −9.4 | −0 31 57.4 | +3.0 |
| Aug. 15 | 1.295047 | 297 37 55.1 | −9.4 | −0 32 13.0 | +3.0 |
| Sept. 24 | 1.295179 | 298 4 32.9 | −9.4 | −0 32 28.4 | +3.0 |
| Nov. 3 | 1.295310 | 298 31 9.9 | −9.4 | −0 32 43.7 | +3.0 |
| Dez. 13 | 1.295440 | 298 57 46.0 | −9.4 | −0 32 58.8 | +3.0 |
| 53 | 1.295569 | 299 24 21.2 | −9.4 | −0 33 13.8 | +3.0 |

☊ = 73° 32′; $i = 0° 46' 22''$; $m = \frac{1}{22869}$

## NEPTUN 1911.

| 0h Mittl. Zeit | Log. Radius vect. | Länge in der Bahn | Red. auf die Ekliptik | Breite | $B_0$ |
|---|---|---|---|---|---|
| 1910 Dez. 18 | 1.476598 | 110° 0′ 30″.0 | +32″.9 | −0° 37′ 51″.7 | −1″.2 |
| 1911 Jan. 27 | 1.476610 | 110 14 57.1 | +32.6 | −0 37 26.5 | −1.2 |
| März 8 | 1.476621 | 110 29 24.0 | +32.3 | −0 37 1.3 | −1.2 |
| April 17 | 1.476633 | 110 43 50.8 | +32.0 | −0 36 36.0 | −1.2 |
| Mai 27 | 1.476645 | 110 58 17.4 | +31.7 | −0 36 10.8 | −1.2 |
| Juli 6 | 1.476657 | 111 12 43.9 | +31.4 | −0 35 45.5 | −1.3 |
| Aug. 15 | 1.476669 | 111 27 10.3 | +31.0 | −0 35 20.2 | −1.3 |
| Sept. 24 | 1.476681 | 111 41 36.6 | +30.7 | −0 34 54.8 | −1.3 |
| Nov. 3 | 1.476693 | 111 56 2.7 | +30.4 | −0 34 29.4 | −1.3 |
| Dez. 13 | 1.476705 | 112 10 28.7 | +30.0 | −0 34 3.9 | −1.3 |
| 53 | 1.476717 | 112 24 54.6 | +29.7 | −0 33 38.4 | −1.3 |

☊ = 130° 47′; $i = 1° 46' 42''$; $m = \frac{1}{19314}$

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0s.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0".001 |
|---|---|---|---|---|---|---|---|---|
| 1 | α Androm. | 2.1 | 0h 3m 47s.053 | +3s.0952 | + 107 | +28° 35′ 56″.67 | +19″.882 | − 161 |
| 2 | β Cassiopejae | 2.2 | 0 4 25.266 | +3.1823 | + 675 | +58 39 31.94 | +19.863 | − 180 |
| 3 | ε Phoenicis | 3.8 | 0 4 53.767 | +3.0527 | + 99 | −46 14 18.89 | +19.849 | − 192 |
| 4 | [22 Androm.] | 5.2 | 0 5 41.389 | +3.1072 | + 8 | +45 34 37.06 | +20.037 | − 3 |
| 5 | [χ² Sculptoris] | 5.5 | 0 7 3.359 | +3.0508 | + 4 | −28 17 44.19 | +20.042 | + 6 |
| 6 | [ϑ Sculptoris] | 5.3 | 0 7 12.585 | +3.0528 | + 104 | −35 37 52.99 | +20.160 | + 124 |
| 7 | γ Pegasi | 2.7 | 0 8 39.059 | +3.0858 | + 1 | +14 41 19.44 | +20.018 | − 14 |
| 8 | [Br. 6] | 6.5 | 0 11 9.960 | +3.3493 | + 67 | +76 27 22.46 | +20.024 | + 2 |
| 9 | ι Ceti | 3.5 | 0 14 53.604 | +3.0568 | − 15 | − 9 19 2.31 | +19.972 | − 32 |
| 10 | ζ Tucanae | 4.2 | 0 15 26.366 | +3.1467 | +2707 | −65 23 52.44 | +21.154 | +1154 |
| 11 | β Hydri | 2.8 | 0 21 5.428 | +3.2066 | +7001 | −77 45 19.65 | +20.279 | + 318 |
| 12 | α Phoenicis | 2.3 | 0 21 53.184 | +2.9714 | + 168 | −42 47 21.87 | +19.546 | − 409 |
| 13 | 12 Ceti | 6.1 | 0 25 29.811 | +3.0617 | + 8 | − 4 26 56.52 | +19.914 | − 8 |
| 14 | [Ceti 49 G.] | 5.3 | 0 25 55.733 | +3.0019 | − 25 | −24 16 48.18 | +19.927 | + 9 |
| 15 | [λ¹ Phoenicis] | 4.7 | 0 27 7.487 | +2.9014 | + 123 | −49 17 44.68 | +19.918 | + 12 |
| 16 | [κ Cassiop.] | 4.2 | 0 27 55.909 | +3.3850 | + 11 | +62 26 26.52 | +19.900 | + 3 |
| 17 | ζ Cassiopejae | 3.8 | 0 32 0.344 | +3.3254 | + 23 | +53 24 25.91 | +19.844 | − 7 |
| 18 | π Androm. | 4.2 | 0 32 7.420 | +3.1965 | + 17 | +33 13 46.22 | +19.850 | 0 |
| 19 | [ε Androm.] | 4.3 | 0 33 50.950 | +3.1635 | − 173 | +28 49 43.03 | +19.576 | − 251 |
| 20 | δ Androm. | 3.2 | 0 34 33.908 | +3.2008 | + 106 | +30 22 26.82 | +19.735 | − 84 |
| 21 | α Cassiopejae | (2.2) | 0 35 26.923 | +3.3843 | + 60 | +56 2 57.72 | +19.777 | − 29 |
| 22 | β Ceti | 2.2 | 0 39 7.355 | +3.0127 | + 160 | −18 28 30.07 | +19.793 | + 39 |
| 23 | [η Phoenicis] | 4.3 | 0 39 21.510 | +2.7083 | + 5 | −57 57 4.45 | +19.743 | − 8 |
| 24 | 21 Cassiopejae | 5.8 | 0 39 45.046 | +3.8985 | − 57 | +74 30 6.10 | +19.722 | − 23 |
| 25 | o Cassiopejae | 4.7 | 0 39 45.583 | +3.3291 | + 22 | +47 47 50.55 | +19.737 | − 8 |
| 26 | [λ² Sculptoris] | 5.9 | 0 39 53.936 | +2.9035 | + 178 | −38 54 43.27 | +19.857 | + 115 |
| 27 | ζ Androm. | 4.1 | 0 42 37.083 | +3.1739 | − 75 | +23 46 59.27 | +19.622 | − 79 |
| 28 | [δ Piscium] | 4.4 | 0 44 3.796 | +3.1096 | + 52 | + 7 6 2.97 | +19.631 | − 46 |
| 29 | [Br. 82] | 5.7 | 0 45 18.966 | +3.6111 | + 59 | +63 45 47.42 | +19.651 | − 5 |
| 31 | [λ Hydri] | 5.3 | 0 45 30.490 | +2.0999 | + 400 | −75 24 28.30 | +19.626 | − 26 |
| 30 | [19 Ceti] | 5.4 | 0 45 40.136 | +3.0046 | − 159 | −11 7 24.64 | +19.427 | − 223 |
| 32 | γ Cassiopejae | 2.0 | 0 51 19.630 | +3.5952 | + 37 | +60 14 5.90 | +19.541 | − 4 |
| 34 | [λ² Tucanae] | 5.3 | 0 51 40.848 | +2.2479 | − 33 | −70 0 29.90 | +19.493 | − 45 |
| 33 | μ Androm. | 3.9 | 0 51 48.514 | +3.3196 | + 129 | +38 1 0.49 | +19.572 | + 36 |
| 35 | α Sculptoris | 4.1 | 0 54 19.064 | +2.8921 | − 5 | −29 50 18.25 | +19.480 | − 5 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0ˢ.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0″.001 |
|---|---|---|---|---|---|---|---|---|
| | | | h m s | s | | ° ′ ″ | ″ | |
| 36 | ε Piscium | 4.2 | 0 58 19.351 | +3.1108 | − 55 | + 7 24 40.27 | +19.431 | + 30 |
| 37 | [26 Ceti] | 6.2 | 0 59 14.147 | +3.0859 | + 81 | + 0 53 23.75 | +19.341 | − 39 |
| 38 | β Phoenicis | 3.2 | 1 2 6.758 | +2.6806 | − 56 | −47 11 43.16 | +19.299 | − 15 |
| 39 | [ι Tucanae] | 5.5 | 1 3 47.279 | +2.3847 | + 101 | −62 15 1.79 | +19.271 | − 4 |
| 40 | [η Ceti] | 3.3 | 1 4 6.724 | +3.0169 | + 138 | −10 39 13.94 | +19.135 | −132 |
| 41 | [44 H. Ceph.] | 5.7 | 1 4 32.625 | +5.0524 | + 331 | +79 12 1.98 | +19.266 | + 9 |
| 42 | β Androm. | 2.1 | 1 4 44.668 | +3.3499 | + 151 | +35 8 56.22 | +19.139 | −112 |
| 43 | [τ Piscium] | 4.3 | 1 6 45.295 | +3.2963 | + 56 | +29 37 2.20 | +19.160 | − 41 |
| 44 | [Sculpt. 102 G.] | 6.0 | 1 8 39.383 | +2.7646 | + 39 | −38 19 40.74 | +19.126 | − 27 |
| 45 | υ Piscium | 4.6 | 1 14 34.258 | +3.2898 | + 15 | +26 47 47.35 | +18.983 | − 11 |
| 47 | ϑ Ceti | 3.4 | 1 19 34.464 | +2.9979 | − 55 | − 8 38 32.57 | +18.636 | −214 |
| 46 | [ψ Cassiop.] | 5.0 | 1 19 37.805 | +4.1935 | + 134 | +67 39 57.03 | +18.881 | + 33 |
| 48 | δ Cassiopejae | 2.7 | 1 19 58.994 | +3.8966 | + 397 | +59 46 22.97 | +18.795 | − 43 |
| 49 | [γ Phoenicis] | 3.2 | 1 24 30.032 | +2.6073 | − 38 | −43 46 26.62 | +18.481 | −218 |
| 50 | η Piscium | 3.6 | 1 26 43.100 | +3.2053 | + 15 | +14 53 14.07 | +18.621 | − 7 |
| 51 | 40 Cassiopejae | 5.5 | 1 31 22.843 | +4.7248 | − 19 | +72 35 12.63 | +18.468 | − 6 |
| 52 | υ Persei | 3.6 | 1 32 31.339 | +3.6656 | + 64 | +48 10 39.41 | +18.321 | −113 |
| 53 | [Hydri 14 G.] | 6.3 | 1 33 3.059 | +0.3614 | − 69 | −78 57 23.66 | +18.288 | −128 |
| 54 | α Eridani | 1 | 1 34 24.093 | +2.2388 | + 122 | −57 41 19.40 | +18.332 | − 38 |
| 55 | 43 Cassiopejae | 5.9 | 1 35 43.966 | +4.3962 | + 88 | +67 35 35.90 | +18.321 | − 2 |
| 56 | [ν Piscium] | 4.5 | 1 36 47.887 | +3.1192 | − 16 | + 5 2 14.96 | +18.286 | + 2 |
| 57 | φ Persei | 4.1 | 1 38 4.472 | +3.7418 | + 26 | +50 14 26.63 | +18.224 | − 15 |
| 58 | [Sculpt. 129 G.] | 5.8 | 1 38 7.561 | +2.6444 | − 58 | −37 16 51.81 | +18.213 | − 23 |
| 59 | τ Ceti | 3.4 | 1 39 56.001 | +2.7868 | −1196 | −16 24 21.50 | +19.021 | +851 |
| 60 | ο Piscium | 4.3 | 1 40 41.513 | +3.1643 | + 47 | + 8 42 36.42 | +18.192 | + 50 |
| 61 | Lac. ε Sculpt. | 5.3 | 1 41 28.622 | +2.8094 | + 99 | −25 29 50.45 | +18.038 | − 75 |
| 62 | ζ Ceti | 3.5 | 1 47 4.003 | +2.9602 | + 22 | −10 46 28.06 | +17.864 | − 34 |
| 63 | ε Cassiopejae | 3.3 | 1 47 58.751 | +4.2800 | + 50 | +63 13 56.06 | +17.847 | − 15 |
| 64 | α Triang. | 3.5 | 1 48 0.248 | +3.4120 | + 11 | +29 8 44.18 | +17.628 | −233 |
| 65 | ξ Piscium | 4.6 | 1 48 56.790 | +3.1032 | + 13 | + 2 44 54.42 | +17.843 | + 19 |
| 66 | β Arietis | 2.7 | 1 49 43.212 | +3.3077 | + 65 | +20 22 24.01 | +17.684 | −109 |
| 67 | ψ Phoenicis | 4.5 | 1 50 4.715 | +2.4069 | − 95 | −46 44 18.43 | +17.677 | −101 |
| 68 | χ Eridani | 3.6 | 1 52 29.640 | +2.3360 | + 713 | −52 3 6.60 | +17.950 | +271 |
| 69 | [η² Hydri] | 4.7 | 1 52 40.674 | +1.5163 | + 119 | −68 5 5.72 | +17.751 | + 80 |
| 70 | 50 Cassiopejae | 4.0 | 1 55 48.667 | +5.0534 | − 91 | +71 59 28.26 | +17.565 | + 25 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0s.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0".001 |
|---|---|---|---|---|---|---|---|---|
| | | | h m s | s | | ° ' " | " | |
| 71 | υ Ceti | 3.9 | 1 55 48.693 | +2.8267 | + 91 | −21 30 31.51 | +17.527 | − 14 |
| 72 | α Hydri | 2.9 | 1 55 57.897 | +1.8904 | +362 | −62 0 9.87 | +17.555 | + 21 |
| 73 | γ Androm. | 2.1 | 1 58 25.821 | +3.6693 | + 43 | +41 54 10.89 | +17.375 | − 54 |
| 74 | α Arietis | 2.0 | 2 2 9.159 | +3.3751 | +137 | +23 2 31.30 | +17.122 | −143 |
| 75 | β Triang. | 3.0 | 2 4 14.571 | +3.5598 | +122 | +34 34 0.28 | +17.132 | − 40 |
| 76 | 55 Cassiopejae | 6.3 | 2 7 28.955 | +4.6644 | − 10 | +66 6 28.23 | +17.027 | + 3 |
| 77 | [6 Persei] | 5.7 | 2 7 40.699 | +3.9711 | +367 | +50 39 10.13 | +16.846 | −169 |
| 78 | Lac. μ Forn. | 5.2 | 2 8 59.348 | +2.6430 | + 13 | −31 8 27.72 | +16.956 | + 2 |
| 79 | [γ Triang.] | 4.2 | 2 12 1.120 | +3.5569 | + 37 | +33 26 9.85 | +16.767 | − 44 |
| 80 | 67 Ceti | 5.8 | 2 12 32.594 | +2.9905 | + 55 | − 6 49 54.95 | +16.676 | −110 |
| 81 | [ϑ Arietis] | 5.7 | 2 13 10.321 | +3.3312 | − 10 | +19 29 23.46 | +16.754 | − 2 |
| 82 | [φ Eridani] | 3.5 | 2 13 19.755 | +2.1433 | + 81 | −51 55 26.25 | +16.713 | − 36 |
| 83 | [κ Fornacis] | 5.4 | 2 18 28.205 | +2.7452 | +142 | −24 13 13.52 | +16.434 | − 63 |
| 84 | [λ Horologii] | 5.5 | 2 22 24.565 | +1.6761 | − 95 | −60 42 36.49 | +16.161 | −137 |
| 85 | $\xi^2$ Ceti | 4.2 | 2 23 25.502 | +3.1860 | + 26 | + 8 3 41.66 | +16.243 | − 4 |
| 86 | [κ Eridani] | 4.1 | 2 23 43.313 | +2.1983 | − 2 | −48 6 11.19 | +16.209 | − 23 |
| 88 | [$\lambda^1$ Fornacis] | 6.0 | 2 29 24.287 | +2.4997 | − 43 | −35 2 28.38 | +15.903 | − 32 |
| 87 | 36 H. Cassiop. | 5.4 | 2 29 32.767 | +5.6291 | − 60 | +72 25 47.23 | +15.949 | + 21 |
| 90 | μ Hydri | 5.5 | 2 33 32.022 | −1.3560 | +474 | −79 29 52.01 | +15.681 | − 32 |
| 89 | ν Arietis | 5.6 | 2 33 45.556 | +3.4002 | − 9 | +21 34 37.36 | +15.686 | − 16 |
| 91 | δ Ceti | 3.9 | 2 34 55.147 | +3.0724 | + 7 | − 0 3 17.95 | +15.636 | − 2 |
| 92 | [Br. 366] | 6.3 | 2 37 9.110 | +5.1127 | + 25 | +67 26 49.99 | +15.486 | − 29 |
| 93 | ϑ Persei | 4.1 | 2 38 6.827 | +4.0805 | +346 | +48 51 9.30 | +15.374 | − 88 |
| 95 | [ε Hydri] | 4.0 | 2 38 12.981 | +0.9125 | +169 | −68 38 53.49 | +15.461 | + 5 |
| 94 | [35 Arietis] | 4.7 | 2 38 13.512 | +3.5128 | + 4 | +27 19 44.26 | +15.449 | − 7 |
| 96 | [γ Ceti] | 3.4 | 2 38 41.236 | +3.1054 | − 98 | + 2 51 40.24 | +15.281 | −148 |
| 97 | π Ceti | 4.0 | 2 39 53.176 | +2.8539 | − 8 | −14 14 6.69 | +15.353 | − 9 |
| 98 | μ Ceti | 4.2 | 2 40 7.722 | +3.2389 | +189 | + 9 44 19.81 | +15.318 | − 31 |
| 99 | [η Persei] | 3.8 | 2 44 11.728 | +4.3535 | + 28 | +55 31 36.37 | +15.107 | − 11 |
| 100 | 41 Arietis | 3.6 | 2 44 44.482 | +3.5240 | + 51 | +26 53 39.14 | +14.973 | −113 |
| 101 | β Fornacis | 4.4 | 2 45 21.920 | +2.5103 | + 62 | −32 46 45.52 | +15.209 | +159 |
| 102 | $\tau^2$ Eridani | 4.8 | 2 47 0.075 | +2.7204 | − 39 | −21 22 14.06 | +14.926 | − 29 |
| 103 | τ Persei | 4.0 | 2 47 56.367 | +4.2336 | + 3 | +52 23 55.96 | +14.899 | − 2 |
| 104 | η Eridani | 3.7 | 2 52 4.718 | +2.9292 | + 52 | − 9 15 6.94 | +14.438 | −218 |
| 105 | 47 H. Cephei | 5.8 | 2 54 12.475 | +7.8284 | −113 | +79 4 5.80 | +14.550 | + 21 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0s.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0".001 |
|---|---|---|---|---|---|---|---|---|
| | | | h m s | s | | ° ′ ″ | ″ | |
| 106 | ϑ Eridani | 2.9 | 2 54 53.117 | +2.2724 | − 68 | −40 39 39.15 | +14.515 | + 28 |
| 107 | α Ceti | 2.5 | 2 57 37.513 | +3.1328 | − 9 | + 3 44 27.83 | +14.244 | − 76 |
| 108 | γ Persei | 3.0 | 2 58 20.531 | +4.3248 | + 2 | +53 9 30.84 | +14.273 | − 4 |
| 109 | ρ Persei | (3.8) | 2 59 28.094 | +3.8338 | + 114 | +38 29 45.76 | +14.104 | −103 |
| 110 | μ Horologii | 5.1 | 3 1 30.813 | +1.4078 | − 117 | −60 4 57.94 | +14.013 | − 68 |
| 113 | [ϑ Hydri] | 5.7 | 3 2 3.814 | +0.0991 | + 51 | −72 14 59.85 | +14.069 | + 22 |
| 111 | β Persei | (2.2) | 3 2 22.366 | +3.8919 | + 7 | +40 36 48.29 | +14.026 | − 1 |
| 112 | [ι Persei] | 4.1 | 3 2 38.213 | +4.3122 | +1295 | +49 16 26.25 | +13.930 | − 81 |
| 114 | δ Arietis | 4.3 | 3 6 32.212 | +3.4251 | + 106 | +19 23 26.46 | +13.761 | − 4 |
| 116 | [94 Ceti] | 5.2 | 3 8 13.857 | +3.0601 | + 136 | − 1 31 42.61 | +13.595 | − 61 |
| 117 | 12 Eridani | 3.6 | 3 8 17.367 | +2.5466 | + 241 | −29 20 15.09 | +14.297 | +644 |
| 115 | 48 H. Cephei | 5.9 | 3 8 59.241 | +7.4841 | + 183 | +77 24 32.64 | +13.565 | − 44 |
| 118 | [Horol. 38 G.] | 6.1 | 3 10 17.705 | +1.5144 | − 5 | −57 39 16.67 | +13.518 | − 6 |
| 119 | [e Eridani] | 4.2 | 3 16 22.439 | +2.3958 | +2788 | −43 24 35.77 | +13.862 | +736 |
| 120 | α Persei | 1.9 | 3 17 57.715 | +4.2670 | + 29 | +49 32 42.47 | +12.996 | − 26 |
| 121 | o Tauri | 3.6 | 3 20 1.311 | +3.2251 | − 44 | + 8 42 58.30 | +12.808 | − 76 |
| 122 | 2 H. Camelop. | 4.4 | 3 21 51.112 | +4.8314 | − 1 | +59 37 51.81 | +12.767 | + 6 |
| 123 | [ξ Tauri] | 3.6 | 3 22 20.618 | +3.2478 | + 39 | + 9 25 22.34 | +12.683 | − 45 |
| 124 | [σ Persei] | 4.8 | 3 24 17.620 | +4.2156 | + 9 | +47 41 19.40 | +12.619 | + 23 |
| 125 | f Tauri | 4.1 | 3 25 57.427 | +3.3082 | + 13 | +12 37 55.93 | +12.477 | − 5 |
| 126 | [κ Reticuli] | 4.8 | 3 27 49.103 | +1.0358 | + 514 | −63 15 4.01 | +12.716 | +362 |
| 127 | ε Eridani | 3.5 | 3 28 44.201 | +2.8252 | − 658 | − 9 45 32.67 | +12.302 | + 12 |
| 128 | [Horol. 45 G.] | 5.8 | 3 29 55.333 | +1.7833 | + 48 | −50 40 49.05 | +12.289 | + 81 |
| 130 | [y Eridani] | 4.5 | 3 33 54.005 | +2.1515 | − 16 | −40 33 58.26 | +11.907 | − 24 |
| 129 | [Gr. 716] | 5.4 | 3 34 25.245 | +5.1752 | − 21 | +62 55 44.98 | +11.917 | + 22 |
| 131 | δ Persei | 3.0 | 3 36 34.939 | +4.2581 | + 33 | +47 30 13.41 | +11.706 | − 35 |
| 133 | [δ Fornacis] | 4.9 | 3 38 42.476 | +2.3848 | − 5 | −32 13 20.30 | +11.598 | + 7 |
| 132 | [o Persei] | 3.9 | 3 38 44.038 | +3.7549 | + 8 | +32 0 24.94 | +11.572 | − 17 |
| 135 | [δ Eridani] | 3.4 | 3 38 59.026 | +2.8724 | − 65 | −10 3 50.86 | +12.318 | +747 |
| 134 | ν Persei | 3.9 | 3 39 8.561 | +4.0653 | − 6 | +42 17 53.28 | +11.554 | − 5 |
| 136 | [17 Tauri] | 4.0 | 3 39 35.256 | +3.5572 | + 17 | +23 50 3.03 | +11.484 | − 44 |
| 137 | [24 Eridani] | 5.4 | 3 39 59.196 | +3.0451 | + 1 | − 1 26 35.91 | +11.490 | − 8 |
| 138 | 5 H. Camelop. | 4.5 | 3 40 56.677 | +6.2759 | + 42 | +71 3 32.99 | +11.390 | − 40 |
| 139 | η Tauri | 3.0 | 3 42 11.474 | +3.5610 | + 18 | +23 49 50.05 | +11.293 | − 48 |
| 140 | $\tau^6$ Eridani | 4.1 | 3 43 1.084 | +2.5796 | − 123 | −23 30 43.53 | +10.761 | −519 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0s.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0".001 |
|---|---|---|---|---|---|---|---|---|
| 141 | β Reticuli | 3.8 | 3h 43m 4s.782 | +0s.7414 | +478 | −65° 5′ 12″.91 | +11″.338 | + 62 |
| 142 | [27 Tauri] | 3.8 | 3 43 52.032 | +3.5620 | + 14 | +23 46 54.94 | +11.174 | − 45 |
| 143 | g Eridani | 4.1 | 3 46 7.404 | +2.2446 | − 40 | −36 28 9.75 | +11.003 | − 52 |
| 144 | ζ Persei | 2.9 | 3 48 32.051 | +3.7648 | + 11 | +31 37 12.10 | +10.868 | − 11 |
| 146 | γ Hydri | 3.1 | 3 48 36.377 | −0.9668 | +123 | −74 30 43.29 | +10.983 | +109 |
| 145 | 9 H. Camelop. | 5.5 | 3 49 32.330 | +5.0905 | − 3 | +60 50 56.51 | +10.788 | − 16 |
| 147 | ε Persei | 3.0 | 3 51 52.632 | +4.0172 | + 23 | +39 45 12.49 | +10.603 | − 29 |
| 148 | ξ Persei | 4.0 | 3 53 11.201 | +3.8856 | + 10 | +35 32 8.94 | +10.526 | − 8 |
| 149 | γ Eridani | 3.0 | 3 53 52.572 | +2.7978 | + 43 | −13 45 40.37 | +10.371 | −112 |
| 150 | λ Tauri | (3.5) | 3 55 44.840 | +3.3204 | − 5 | +12 14 22.11 | +10.330 | − 13 |
| 151 | ν Tauri | 3.9 | 3 58 25.224 | +3.1889 | + 4 | + 5 44 34.55 | +10.132 | − 10 |
| 153 | [Erid. 174 G.] | 5.7 | 4 1 57.301 | +2.4717 | +148 | −27 53 41.52 | + 9.982 | +108 |
| 152 | c Persei | 4.0 | 4 2 11.724 | +4.3447 | + 33 | +47 28 32.46 | + 9.824 | − 32 |
| 154 | o¹ Eridani | 4.1 | 4 7 31.214 | +2.9271 | + 8 | − 7 4 8.78 | + 9.530 | + 82 |
| 155 | α Horologii | 3.7 | 4 11 3.052 | +1.9853 | + 21 | −42 30 48.51 | + 8.956 | −219 |
| 156 | α Reticuli | 3.2 | 4 13 16.506 | +0.7644 | + 50 | −62 41 47.09 | + 9.048 | + 47 |
| 157 | [γ Doradus] | 4.2 | 4 13 41.545 | +1.5674 | + 88 | −51 42 39.13 | + 9.140 | +172 |
| 160 | υ⁴ Eridani | 3.3 | 4 14 31.506 | +2.2682 | + 37 | −34 0 54.79 | + 8.891 | − 12 |
| 158 | [54 Persei] | 5.3 | 4 14 37.695 | +3.8892 | − 20 | +34 21 9.39 | + 8.889 | − 6 |
| 159 | [γ Tauri] | 3.7 | 4 14 43.594 | +3.4110 | + 82 | +15 24 48.00 | + 8.859 | − 29 |
| 161 | [Erid. 212 G.] | 5.4 | 4 16 46.084 | +2.6179 | + 36 | −20 51 4.56 | + 8.743 | + 15 |
| 162 | δ Tauri | 3.8 | 4 17 48.013 | +3.4567 | + 78 | +17 20 3.98 | + 8.615 | − 31 |
| 163 | [η Reticuli] | 5.3 | 4 20 55.430 | +0.6410 | +126 | −63 35 51.15 | + 8.559 | +160 |
| 164 | ε Tauri | 3.5 | 4 23 25.074 | +3.5001 | + 80 | +18 59 1.47 | + 8.165 | − 35 |
| 166 | [δ Mensae] | 5.8 | 4 23 58.090 | −4.1532 | + 97 | −80 25 23.20 | + 8.228 | + 72 |
| 165 | [1 Camel. seq.] | 6.3 | 4 24 58.540 | +4.7395 | + 7 | +53 43 5.86 | + 8.076 | 0 |
| 167 | [δ Caeli] | 5.2 | 4 28 6.479 | +1.8354 | − 6 | −45 8 40.24 | + 7.807 | − 17 |
| 168 | α Tauri | 1 | 4 30 48.721 | +3.4397 | + 49 | +16 19 51.77 | + 7.417 | −189 |
| 169 | ν Eridani | 3.8 | 4 31 52.267 | +2.9963 | + 2 | − 3 32 1.85 | + 7.515 | − 4 |
| 171 | α Doradus | 3.2 | 4 32 4.399 | +1.2947 | + 71 | −55 13 42.69 | + 7.507 | + 3 |
| 170 | [υ² Eridani] | 3.5 | 4 32 5.373 | +2.3308 | − 46 | −30 44 38.44 | + 7.496 | − 6 |
| 172 | 53 Eridani | 3.9 | 4 34 6.214 | +2.7460 | − 54 | −14 28 39.04 | + 7.174 | −165 |
| 173 | Gr. 848 | 6.2 | 4 36 50.242 | +8.0138 | +108 | +75 46 50.84 | + 6.982 | −133 |
| 174 | τ Tauri | 4.2 | 4 36 54.093 | +3.5980 | + 5 | +22 47 12.85 | + 7.091 | − 19 |
| 175 | 4 Camelop. | 5.5 | 4 40 35.053 | +4.9849 | + 61 | +56 36 0.34 | + 6.662 | −146 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0ˢ.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0″.001 |
|---|---|---|---|---|---|---|---|---|
| | | | h m s | s | | ° ′ ″ | ″ | |
| 176 | [μ Eridani] | 3.8 | 4 41 3.093 | +2.9988 | + 13 | − 3 25 1.93 | +6.758 | − 12 |
| 177 | [μ Mensae] | 5.5 | 4 43 56.927 | −0.6149 | + 17 | −71 5 39.46 | +6.559 | + 28 |
| 178 | 9 Camelop. | 4.3 | 4 45 11.625 | +5.9421 | + 5 | +66 11 33.89 | +6.437 | + 10 |
| 179 | [π⁴ Orionis] | 3.7 | 4 46 27.886 | +3.1936 | 0 | + 5 27 12.63 | +6.315 | − 7 |
| 180 | π⁵ Orionis | 3.7 | 4 49 36.858 | +3.1235 | − 2 | + 2 17 43.92 | +6.057 | − 3 |
| 181 | ι Aurigae | 2.7 | 4 51 11.741 | +3.9035 | + 10 | +33 1 33.51 | +5.908 | − 20 |
| 182 | 10 Camelop. | 4.1 | 4 55 29.748 | +5.3245 | − 1 | +60 18 47.72 | +5.556 | − 12 |
| 183 | ε Aurigae | (3.2) | 4 55 34.777 | +4.2998 | + 6 | +43 41 32.83 | +5.547 | − 14 |
| 184 | ι Tauri | 4.8 | 4 57 46.479 | +3.5841 | + 53 | +21 27 48.90 | +5.333 | − 43 |
| 185 | η Aurigae | 3.3 | 5 0 16.274 | +4.2029 | + 33 | +41 6 53.84 | +5.094 | − 71 |
| 186 | ε Leporis | 3.2 | 5 1 41.592 | +2.5391 | + 20 | −22 29 24.17 | +4.977 | − 68 |
| 187 | [η² Pictoris] | 5.1 | 5 2 39.518 | +1.5494 | + 35 | −49 41 52.63 | +4.969 | + 6 |
| 188 | β Eridani | 2.7 | 5 3 28.429 | +2.9487 | − 59 | − 5 12 3.21 | +4.815 | − 79 |
| 189 | [ζ Doradus] | 4.7 | 5 3 58.931 | +1.0227 | − 71 | −57 35 38.65 | +4.954 | +103 |
| 190 | [λ Eridani] | 4.2 | 5 4 53.203 | +2.8703 | + 3 | − 8 52 3.42 | +4.770 | − 4 |
| 192 | μ Aurigae | 5.1 | 5 7 20.161 | +4.1019 | − 13 | +38 22 47.59 | +4.487 | − 79 |
| 191 | 19 H. Camelop. | 5.1 | 5 7 52.037 | +9.8218 | −316 | +79 7 51.55 | +4.681 | +160 |
| 193 | α Aurigae | 1 | 5 10 6.724 | +4.4280 | + 85 | +45 54 30.25 | +3.902 | −428 |
| 194 | β Orionis | 1 | 5 10 15.596 | +2.8822 | + 2 | − 8 18 13.88 | +4.316 | 0 |
| 195 | [τ Orionis] | 3.7 | 5 13 17.054 | +2.9121 | − 12 | − 6 56 23.92 | +4.051 | − 7 |
| 196 | ϑ Doradus | 4.8 | 5 13 49.368 | −0.0539 | + 14 | −67 17 7.57 | +4.050 | + 39 |
| 197 | [ο Columbae] | 4.9 | 5 14 16.429 | +2.1623 | + 63 | −34 58 54.06 | +3.645 | −328 |
| 198 | [Columb. 12 G.] | 6.0 | 5 15 50.837 | +2.3917 | + 8 | −27 27 35.55 | +3.827 | − 11 |
| 199 | [ζ Pictoris] | 5.6 | 5 17 11.048 | +1.4690 | + 8 | −50 42 4.68 | +3.950 | +227 |
| 200 | [η Orion. m.] | 3.3 | 5 20 0.111 | +3.0161 | + 5 | − 2 28 42.19 | +3.482 | + 1 |
| 201 | γ Orionis | 1.7 | 5 20 21.411 | +3.2169 | − 3 | + 6 16 10.80 | +3.430 | − 20 |
| 202 | β Tauri | 1.8 | 5 20 39.886 | +3.7910 | + 25 | +28 31 59.10 | +3.247 | −177 |
| 203 | 17 Camelop. | 5.9 | 5 21 45.617 | +5.6580 | − 3 | +62 59 38.52 | +3.328 | − 1 |
| 204 | [β Leporis] | 2.9 | 5 24 25.917 | +2.5706 | + 4 | −20 49 47.69 | +3.006 | − 93 |
| 206 | δ Orionis | 2.2 | 5 27 27.538 | +3.0641 | 0 | − 0 21 51.81 | +2.835 | − 2 |
| 205 | Gr. 966 | 6.6 | 5 27 48.986 | +8.0056 | − 9 | +74 59 11.63 | +2.826 | + 20 |
| 207 | α Leporis | 2.6 | 5 28 48.263 | +2.6454 | + 2 | −17 53 7.66 | +2.722 | + 2 |
| 208 | [φ¹ Orionis] | 4.6 | 5 29 56.034 | +3.2925 | − 1 | + 9 25 47.77 | +2.612 | − 10 |
| 209 | ι Orionis | 2.8 | 5 31 4.748 | +2.9344 | + 4 | − 5 58 3.90 | +2.519 | − 4 |
| 210 | ε Orionis | 1.6 | 5 31 41.807 | +3.0435 | + 1 | − 1 15 29.33 | +2.466 | − 3 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0^s.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0".001 |
|---|---|---|---|---|---|---|---|---|
| | | | h m s | s | | ° ′ ″ | ″ | |
| 211 | ζ Tauri | 3.0 | 5 32 19.501 | +3.5847 | + 6 | +21 5 20.38 | +2.389 | − 26 |
| 212 | β Doradus | 3.7 | 5 32 51.073 | +0.5168 | − 13 | −62 32 52.38 | +2.367 | − 2 |
| 213 | [σ Orionis] | 3.8 | 5 34 16.656 | +3.0111 | 0 | − 2 39 2.97 | +2.244 | − 1 |
| 214 | [γ Mensae] | 5.3 | 5 35 24.100 | −2.3940 | +276 | −76 24 17.47 | +2.446 | +299 |
| 215 | α Columbae | 2.4 | 5 36 25.519 | +2.1717 | − 1 | −34 7 16.13 | +2.021 | − 37 |
| 216 | ο Aurigae | 5.7 | 5 39 0.273 | +4.6461 | − 6 | +49 47 17.87 | +1.825 | − 9 |
| 217 | [γ Leporis] | 3.8 | 5 40 45.193 | +2.5015 | −201 | −22 28 36.93 | +1.305 | −376 |
| 218 | [130 Tauri] | 5.8 | 5 42 14.822 | +3.4980 | + 4 | +17 41 47.46 | +1.545 | − 6 |
| 219 | ζ Leporis | 3.5 | 5 42 55.340 | +2.7179 | − 12 | −14 51 16.34 | +1.491 | − 2 |
| 220 | κ Orionis | 2.1 | 5 43 32.108 | +2.8451 | + 4 | − 9 42 2.33 | +1.436 | − 3 |
| 221 | [ν Aurigae] | 3.9 | 5 45 19.241 | +4.1569 | − 4 | +39 7 23.89 | +1.294 | + 11 |
| 222 | [δ Leporis] | 3.8 | 5 47 29.617 | +2.5799 | +166 | −20 53 10.07 | +0.441 | −652 |
| 223 | [β Columbae] | 2.9 | 5 47 49.269 | +2.1133 | + 33 | −35 48 4.59 | +1.468 | +404 |
| 224 | α Orionis | 1 | 5 50 21.184 | +3.2478 | + 20 | + 7 23 28.32 | +0.857 | + 13 |
| 225 | δ Aurigae | 3.8 | 5 52 11.925 | +4.9399 | +100 | +54 16 44.09 | +0.560 | −122 |
| 226 | [η Leporis] | 3.6 | 5 52 21.064 | +2.7323 | − 27 | −14 11 0.11 | +0.808 | +140 |
| 227 | β Aurigae | 1.9 | 5 53 0.024 | +4.4013 | − 42 | +44 56 21.47 | +0.605 | − 8 |
| 228 | ϑ Aurigae | 2.7 | 5 53 39.135 | +4.0917 | + 49 | +37 12 25.94 | +0.468 | − 87 |
| 229 | η Columbae | 3.9 | 5 56 25.342 | +1.8365 | + 22 | −42 49 11.34 | +0.279 | − 34 |
| 230 | [66 Orionis] | 5.9 | 6 0 16.192 | +3.1693 | − 6 | + 4 9 51.44 | −0.039 | − 15 |
| 231 | [Puppis 1 G.] | 5.8 | 6 1 54.710 | +1.7262 | − 83 | −45 2 9.11 | +0.065 | +232 |
| 232 | ν Orionis | 4.4 | 6 2 29.431 | +3.4262 | + 11 | +14 46 47.04 | −0.249 | − 31 |
| 233 | [36 Camelop.] | 5.6 | 6 3 53.824 | +6.0366 | − 5 | +65 44 14.42 | −0.370 | − 29 |
| 235 | [δ Pictoris] | 5.0 | 6 8 33.853 | +1.1667 | − 22 | −54 56 54.80 | −0.756 | − 7 |
| 234 | 22 H. Camelop. | 4.6 | 6 9 2.478 | +6.6180 | + 17 | +69 21 9.38 | −0.893 | −102 |
| 236 | η Geminor. | 3.3 | 6 9 30.332 | +3.6224 | − 42 | +22 32 0.25 | −0.844 | − 13 |
| 237 | [2 Lyncis] | 4.4 | 6 11 46.299 | +5.2970 | − 7 | +59 2 39.42 | −1.000 | + 29 |
| 239 | [α Mensae] | 5.1 | 6 12 53.332 | −1.7886 | +238 | −74 43 22.48 | −1.352 | −226 |
| 238 | [κ Columbae] | 4.4 | 6 13 23.128 | +2.1339 | − 6 | −35 6 37.68 | −1.096 | + 74 |
| 240 | ζ Canis maj. | 2.9 | 6 16 53.760 | +2.3025 | + 2 | −30 1 23.84 | −1.473 | + 4 |
| 241 | μ Geminor. | 2.9 | 6 17 34.600 | +3.6309 | + 48 | +22 33 36.27 | −1.647 | −111 |
| 242 | ψ¹ Aurigae | 5.1 | 6 18 2.704 | +4.6242 | + 9 | +49 20 3.55 | −1.580 | − 3 |
| 243 | β Canis maj. | 2.0 | 6 18 46.803 | +2.6417 | − 4 | −17 54 40.14 | −1.639 | + 2 |
| 244 | 8 Monocer. | 4.5 | 6 19 3.131 | +3.1799 | − 7 | + 4 38 19.36 | −1.661 | + 4 |
| 245 | α Argus | 1 | 6 21 58.506 | +1.3313 | + 16 | −52 38 48.24 | −1.908 | + 11 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0ˢ.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0″.001 |
|---|---|---|---|---|---|---|---|---|
| 246 | 10 Monocer. | 5.0 | 6ʰ 23ᵐ 33ˢ.883 | + 2.9629 | — 2 | — 4° 42′ 23″.54 | —2″.052 | + 5 |
| 247 | 8 Lyncis | 6.3 | 6 29 33.564 | + 5.4913 | —283 | +61 33 37.78 | —2.856 | — 277 |
| 248 | 23 H. Camelop. | 5.6 | 6 31 3.713 | +10.3053 | —270 | +79 39 46.26 | —3.331 | — 623 |
| 249 | ξ² Canis maj. | 4.6 | 6 31 19.558 | + 2.5140 | + 5 | —22 53 37.50 | —2.718 | + 13 |
| 250 | 51 Aurigae | 6.1 | 6 32 29.575 | + 4.1602 | — 18 | +39 28 12.48 | —2.947 | — 114 |
| 251 | γ Geminor. | 2.0 | 6 32 34.258 | + 3.4673 | + 34 | +16 28 33.48 | —2.885 | — 45 |
| 252 | ν Argus | 3.1 | 6 35 2.261 | + 1.8354 | — 4 | —43 7 3.31 | —3.073 | — 20 |
| 253 | *S* Monocer. | (4.4) | 6 36 4.632 | + 3.3054 | + 6 | + 9 58 43.49 | —3.148 | — 5 |
| 254 | ε Geminor. | 3.1 | 6 38 27.451 | + 3.6935 | + 3 | +25 13 12.10 | —3.362 | — 15 |
| 256 | ξ Geminor. | 3.4 | 6 40 17.688 | + 3.3687 | — 75 | +12 59 32.05 | —3.706 | — 199 |
| 255 | [ψ⁵ Aurigae] | 5.5 | 6 40 19.574 | + 4.3291 | + 6 | +43 40 0.61 | —3.355 | + 154 |
| 257 | α Canis maj.[1] | 1 | 6 41 13.673 | + 2.6438 | —369 | —16 35 36.52 | —4.799 | —1213 |
| 258 | 18 Monocer. | 4.7 | 6 43 13.250 | + 3.1299 | — 2 | + 2 30 36.57 | —3.778 | — 20 |
| 259 | [43 Camelop.] | 5.1 | 6 44 6.850 | + 6.4902 | + 16 | +68 59 34.92 | —3.832 | + 3 |
| 261 | ϑ Geminor. | 3.4 | 6 46 55.473 | + 3.9582 | + 7 | +34 4 9.63 | —4.131 | — 55 |
| 260 | [24 H. Camel.] | 4.6 | 6 47 6.061 | + 8.8032 | +217 | +77 5 33.05 | —4.104 | — 13 |
| 262 | α Pictoris | 3.2 | 6 47 16.730 | + 0.6183 | —101 | —61 50 44.09 | —3.850 | + 256 |
| 264 | [ζ Mensae] | 5.7 | 6 47 28.208 | — 4.9358 | — 38 | —80 43 13.84 | —4.038 | + 85 |
| 263 | [τ Argus] | 2.9 | 6 47 43.646 | + 1.4888 | + 29 | —50 30 30.12 | —4.240 | — 96 |
| 265 | 15 Lyncis | 4.6 | 6 49 34.416 | + 5.2059 | 0 | +58 32 25.75 | —4.432 | — 130 |
| 266 | ϑ Canis maj. | 4.1 | 6 50 3.299 | + 2.7876 | — 94 | —11 55 35.67 | —4.357 | — 14 |
| 267 | [ι Volantis] | 5.4 | 6 52 28.283 | — 0.6764 | — 5 | —70 51 9.46 | —4.538 | + 12 |
| 268 | ε Canis maj. | 1.5 | 6 55 7.646 | + 2.3575 | 0 | —28 51 1.63 | —4.774 | + 1 |
| 269 | ζ Geminor. | (3.8) | 6 58 49.884 | + 3.5610 | 0 | +20 42 5.83 | —5.092 | — 3 |
| 270 | [o² Canis maj.] | 3.1 | 6 59 18.482 | + 2.5052 | — 2 | —23 42 9.86 | —5.130 | 0 |
| 271 | γ Canis maj. | 4.0 | 6 59 43.938 | + 2.7152 | + 8 | —15 30 4.45 | —5.178 | — 12 |
| 272 | [Carinae 27 G.] | 5.5 | 7 2 38.726 | + 1.1175 | — 24 | —56 36 51.51 | —5.419 | — 7 |
| 273 | δ Canis maj. | 1.9 | 7 4 46.322 | + 2.4389 | — 8 | —26 15 5.01 | —5.587 | + 3 |
| 274 | 63 Aurigae | 5.0 | 7 5 32.157 | + 4.1327 | + 45 | +39 27 59.72 | —5.654 | + 1 |
| 275 | [*J* Puppis] | 4.5 | 7 10 1.327 | + 1.7095 | —148 | —46 36 37.08 | —5.940 | + 90 |
| 276 | [64 Aurigae] | 6.0 | 7 11 51.072 | + 4.1790 | — 3 | +41 2 31.79 | —6.179 | + 3 |
| 277 | λ Geminor. | 3.6 | 7 12 58.754 | + 3.4503 | — 31 | +16 42 5.79 | —6.320 | — 44 |
| 278 | π Argus | 2.5 | 7 13 59.929 | + 2.1184 | — 14 | —36 56 14.02 | —6.358 | + 3 |
| 279 | δ Geminor. | 3.3 | 7 14 48.551 | + 3.5867 | — 11 | +22 8 49.19 | —6.438 | — 10 |
| 280 | 19 Lync. seq. | 5.5 | 7 15 36.601 | + 4.9087 | — 1 | +55 27 0.21 | —6.528 | — 34 |

[1]) Ort des Schwerpunkts. Die Reduktion auf den Hauptstern ist (Peters, Neuer Fundamental-Katalog, Seite 98):

| | | |
|---|---|---|
| 1911.0 | $\Delta\alpha = -0^s.212$ | $\Delta\delta = -0''.23$ |
| 1912.0 | $-0.218$ | $-0.38$ |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0ˢ.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0″.001 |
|---|---|---|---|---|---|---|---|---|
| 281 | δ Volantis | 4.0 | 7ʰ 16ᵐ 52ˢ.747 | −0ˢ.0184 | + 4 | −67° 47′ 39″.64 | − 6″.611 | − 12 |
| 282 | ι Geminor. | 3.8 | 7 20 12.059 | +3.7310 | − 83 | +27 58 32.67 | − 6.958 | − 85 |
| 283 | [η Can. maj.] | 2.4 | 7 20 34.472 | +2.3729 | − 5 | −29 7 44.05 | − 6.890 | + 13 |
| 284 | Gr. 1308 | 5.8 | 7 21 37.727 | +6.2759 | − 7 | +68 38 55.24 | − 7.033 | − 44 |
| 285 | β Canis min. | 2.9 | 7 22 19.508 | +3.2557 | − 31 | + 8 28 9.60 | − 7.087 | − 41 |
| 286 | ρ Geminor. | 4.4 | 7 23 23.337 | +3.8640 | +122 | +31 57 44.38 | − 6.951 | + 183 |
| 287 | α Gemin.[1]) | 1.8,2.8 | 7 28 55.274 | +3.8352 | −129 | +32 5 5.14 | − 7.666 | − 82 |
| 288 | [Pupp. 108 G.] | 4.7 | 7 30 14.578 | +2.5674 | − 39 | −22 6 12.62 | − 7.673 | + 18 |
| 289 | 25 Monocer. | 5.3 | 7 32 51.218 | +2.9838 | − 47 | − 3 54 42.02 | − 7.881 | + 20 |
| 290 | [f Puppis] | 4.7 | 7 34 4.482 | +2.2192 | − 27 | −34 46 4.28 | − 7.983 | + 16 |
| 291 | α Can. min.[2]) | 0.5 | 7 34 38.626 | +3.1425 | −469 | + 5 27 13.63 | − 9.074 | −1029 |
| 292 | 24 Lyncis | 5.0 | 7 35 28.981 | +5.0953 | − 47 | +58 55 10.46 | − 8.165 | − 53 |
| 293 | [26 Monocer.] | 4.0 | 7 36 59.696 | +2.8664 | − 57 | − 9 20 34.63 | − 8.254 | − 22 |
| 294 | κ Geminor. | 3.4 | 7 39 4.599 | +3.6269 | − 15 | +24 36 43.76 | − 8.453 | − 54 |
| 295 | β Geminor. | 1.1 | 7 39 52.314 | +3.6765 | −468 | +28 14 30.82 | − 8.515 | − 53 |
| 296 | π Geminor. | 5.5 | 7 41 46.253 | +3.8753 | − 1 | +33 38 5.55 | − 8.643 | − 31 |
| 297 | ζ Volantis | 3.9 | 7 42 55.158 | −0.7201 | + 8 | −72 23 32.79 | − 8.695 | + 8 |
| 298 | [Pupp. 205 G.] | 5.7 | 7 47 39.049 | +2.7788 | − 41 | −13 39 40.85 | − 9.416 | − 343 |
| 299 | [26 Lyncis] | 5.7 | 7 48 14.158 | +4.3808 | − 40 | +47 47 46.13 | − 9.126 | − 7 |
| 301 | [α Puppis] | 3.7 | 7 49 9.425 | +2.0619 | − 18 | −40 20 44.86 | − 9.190 | + 1 |
| 300 | Gr. 1374 | 5.5 | 7 49 33.726 | +7.2509 | − 30 | +74 9 25.28 | − 9.254 | − 32 |
| 302 | [53 Camelop.] | 6.3 | 7 54 6.879 | +5.1506 | − 30 | +60 34 7.27 | − 9.595 | − 21 |
| 303 | χ Argus | 3.5 | 7 54 30.993 | +1.5272 | − 32 | −52 44 35.43 | − 9.581 | + 24 |
| 304 | [27 Monocer.] | 5.2 | 7 55 17.447 | +2.9995 | − 27 | − 3 26 10.69 | − 9.655 | + 9 |
| 305 | χ Geminor. | 5.1 | 7 58 3.273 | +3.6906 | − 15 | +28 2 40.45 | − 9.921 | − 46 |
| 306 | ζ Argus | 2.2 | 8 0 27.319 | +2.1076 | − 34 | −39 45 7.19 | −10.047 | + 10 |
| 307 | 27 Lyncis | 4.6 | 8 1 46.101 | +4.5289 | − 59 | +51 45 50.60 | −10.161 | − 5 |
| 308 | ι Navis | 2.8 | 8 3 45.204 | +2.5547 | − 64 | −24 2 50.12 | −10.259 | + 46 |
| 309 | γ Argus | 2.1 | 8 6 47.352 | +1.8488 | − 12 | −47 4 26.13 | −10.537 | − 4 |
| 310 | Br. 1147 | 5.8 | 8 8 23.244 | +7.6292 | + 58 | +76 1 47.87 | −10.635 | + 17 |
| 311 | 20 Navis | 5.3 | 8 9 14.542 | +2.7581 | − 8 | −15 31 10.46 | −10.721 | − 6 |
| 312 | β Cancri | 3.5 | 8 11 41.398 | +3.2565 | − 30 | + 9 27 37.54 | −10.947 | − 52 |
| 313 | [q Puppis] | 4.4 | 8 15 13.358 | +2.2440 | −104 | −36 22 59.01 | −11.064 | + 89 |
| 314 | 31 Lyncis | 4.4 | 8 16 44.828 | +4.1199 | − 8 | +43 28 27.53 | −11.371 | − 108 |
| 315 | ε Argus | 1.7 | 8 20 41.340 | +1.2352 | − 32 | −59 13 21.89 | −11.532 | + 15 |

[1]) AR. der Mitte, Dekl. des folgenden, helleren Sterns.

[2]) Ort des Schwerpunkts. Die Reduktion auf den Ort des hellen Sterns beträgt (Peters, Neuer Fundamental-Katalog, Seite 98):

| | | |
|---|---|---|
| 1911.0 | Δα = −0ˢ.036 | Δδ = −0″.73 |
| 1912.0 | −0 .042 | −0 .66 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0s.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0".001 |
|---|---|---|---|---|---|---|---|---|
| 316 | Br. 1197 | 3.6 | 8h 21m 12s.851 | +2s.9995 | − 41 | − 3° 36′ 55″.88 | −11″.606 | − 21 |
| 317 | o Ursae maj. | 3.3 | 8 22 52.776 | +5.0139 | −174 | +61 0 59.67 | −11.814 | −111 |
| 318 | ϑ Chamael. | 4.2 | 8 23 19.560 | −1.7411 | −456 | −77 11 51.50 | −11.706 | + 29 |
| 319 | [β Volantis] | 3.7 | 8 24 46.313 | +0.6630 | − 53 | −65 50 23.02 | −12.014 | −177 |
| 320 | Gr. 1450 | 6.3 | 8 27 8.076 | +3.9102 | − 83 | +38 19 20.34 | −12.174 | −170 |
| 321 | η Cancri | 5.6 | 8 27 33.860 | +3.4748 | − 26 | +20 44 38.82 | −12.083 | − 50 |
| 322 | [Gr. 1446] | 6.4 | 8 29 50.165 | +6.7544 | − 35 | +73 56 30.94 | −12.296 | −104 |
| 323 | [Gr. 1460] | 6.3 | 8 32 42.331 | +4.4641 | − 38 | +53 1 27.07 | −12.425 | − 35 |
| 324 | [e Velorum] | 4.2 | 8 34 30.815 | +2.1077 | − 22 | −42 40 38.58 | −12.521 | − 7 |
| 325 | [6 Hydrae] | 5.4 | 8 35 48.465 | +2.8422 | − 64 | −12 9 36.93 | −12.605 | − 3 |
| 326 | δ Cancri | 3.9 | 8 39 37.765 | +3.4143 | − 9 | +18 28 55.13 | −13.096 | −236 |
| 327 | α Pyxidis | 3.7 | 8 40 0.927 | +2.4097 | − 15 | −32 51 54.36 | −12.875 | + 12 |
| 328 | ι Cancri | 4.1 | 8 41 18.877 | +3.6381 | − 12 | +29 5 9.80 | −13.020 | − 47 |
| 329 | [ε Hydrae] | 3.3 | 8 42 3.854 | +3.1801 | −126 | + 6 44 45.21 | −13.074 | − 50 |
| 330 | δ Argus | 2.0 | 8 42 14.770 | +1.6575 | + 22 | −54 22 55.92 | −13.128 | − 93 |
| 331 | [η Chamael.] | 5.9 | 8 44 22.179 | −1.9557 | −151 | −78 38 25.87 | −13.142 | + 33 |
| 332 | [γ Pyxidis] | 4.2 | 8 46 45.269 | +2.5457 | −100 | −27 22 45.39 | −13.239 | + 93 |
| 333 | [σ² Cancri med.] | 5.6 | 8 48 49.063 | +3.6685 | + 31 | +30 55 1.28 | −13.492 | − 26 |
| 334 | ζ Hydrae | 3.1 | 8 50 41.427 | +3.1743 | − 64 | + 6 17 5.26 | −13.576 | + 12 |
| 336 | c Carinae | 4.0 | 8 53 1.896 | +1.3633 | − 26 | −60 18 15.06 | −13.685 | + 52 |
| 335 | ι Ursae maj. | 2.9 | 8 53 7.212 | +4.1243 | −437 | +48 23 30.16 | −13.990 | −248 |
| 337 | α Cancri | 4.1 | 8 53 37.284 | +3.2851 | + 26 | +12 12 10.03 | −13.810 | − 35 |
| 338 | [ρ Ursae maj.] | 4.9 | 8 54 32.120 | +5.4604 | − 34 | +67 58 38.23 | −13.818 | + 15 |
| 339 | 10 Ursae maj. | 3.9 | 8 54 52.062 | +3.9081 | −383 | +42 8 8.63 | −14.118 | −265 |
| 340 | [Gr. 1501] | 5.9 | 8 57 29.599 | +4.4176 | − 8 | +54 38 7.23 | −14.016 | + 3 |
| 341 | κ Ursae maj. | 3.3 | 8 57 33.309 | +4.1123 | − 27 | +47 30 32.84 | −14.087 | − 65 |
| 343 | α Volantis | 4.1 | 9 1 2.654 | +0.9550 | − 7 | −66 2 26.55 | −14.353 | −114 |
| 342 | [c Velorum] | 3.9 | 9 1 4.994 | +2.0660 | − 70 | −46 44 35.25 | −14.269 | − 28 |
| 344 | σ² Ursae maj. | 4.9 | 9 2 34.627 | +5.3261 | − 16 | +67 29 48.08 | −14.401 | − 67 |
| 345 | λ Argus | 2.1 | 9 4 43.253 | +2.2042 | − 33 | −43 4 22.20 | −14.455 | + 9 |
| 346 | [36 Lyncis] | 5.3 | 9 7 59.285 | +3.9383 | − 18 | +43 35 6.73 | −14.702 | − 42 |
| 347 | ϑ Hydrae | 3.9 | 9 9 44.101 | +3.1239 | + 89 | + 2 41 24.81 | −15.077 | −313 |
| 348 | β Argus | 1.7 | 9 12 13.658 | +0.6720 | −303 | −69 21 1.71 | −14.814 | + 97 |
| 349 | [38 Lyncis] | 3.9 | 9 13 18.625 | +3.7447 | − 18 | +37 10 47.14 | −15.103 | −129 |
| 350 | 83 Cancri | 6.7 | 9 14 0.980 | +3.3536 | − 80 | +18 4 59.36 | −15.150 | −135 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0ˢ.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0″.001 |
|---|---|---|---|---|---|---|---|---|
| | | | h m s | s | | ° ′ ″ | ″ | |
| 351 | [ι Argus] | 2.2 | 9 14 42.433 | +1.6061 | — 35 | —58 54 5.50 | —15.053 | + 2 |
| 352 | 40 Lyncis | 3.2 | 9 15 38.218 | +3.6645 | — 178 | +34 46 9.89 | —15.096 | + 12 |
| 353 | κ Argus | 2.5 | 9 19 21.387 | +1.8562 | — 22 | —54 37 48.91 | —15.318 | + 2 |
| 354 | α Hydrae | 2.0 | 9 23 12.864 | +2.9490 | — 7 | — 8 16 20.60 | —15.503 | + 32 |
| 355 | *h* Ursae maj. | 3.5 | 9 24 31.506 | +4.7678 | + 168 | +63 27 6.00 | —15.579 | + 28 |
| 356 | [ε Antliae] | 4.7 | 9 25 34.251 | +2.4739 | — 25 | —35 33 42.30 | —15.679 | — 14 |
| 357 | *d* Ursae maj. | 4.5 | 9 26 37.937 | +5.3660 | — 121 | +70 13 20.20 | —15.648 | + 75 |
| 358 | ϑ Ursae maj. | 3.1 | 9 26 54.719 | +4.0324 | —1028 | +52 5 0.60 | —16.285 | —547 |
| 359 | ψ Argus | 3.6 | 9 27 11.602 | +2.3600 | — 172 | —40 4 35.99 | —15.679 | + 74 |
| 361 | [*N* Velorum] | 3.0 | 9 28 31.059 | +1.8228 | — 36 | —56 38 28.94 | —15.823 | + 1 |
| 360 | 10 Leon. min. | 4.6 | 9 28 46.532 | +3.6865 | + 13 | +36 47 35.62 | —15.864 | — 26 |
| 362 | [*H* Carinae] | 5.8 | 9 30 56.673 | +0.4708 | — 61 | —72 41 9.89 | —15.970 | — 17 |
| 363 | [Gr. 1564] | 5.9 | 9 34 38.817 | +5.1936 | — 131 | +69 38 35.62 | —16.222 | — 74 |
| 364 | [κ Hydrae] | 5.1 | 9 36 2.377 | +2.8760 | — 18 | —13 55 40.96 | —16.230 | — 11 |
| 365 | [ο Leonis] | 3.8 | 9 36 24.139 | +3.2055 | — 94 | +10 17 51.58 | —16.276 | — 37 |
| 366 | ϑ Antliae | 5.0 | 9 40 14.018 | +2.6724 | — 40 | —27 21 41.90 | —16.397 | + 35 |
| 367 | ε Leonis | 3.0 | 9 40 48.133 | +3.4120 | — 31 | +24 11 4.13 | —16.478 | — 17 |
| 368 | υ Ursae maj. | 3.8 | 9 44 40.277 | +4.2956 | — 379 | +59 27 28.46 | —16.806 | —154 |
| 369 | υ Argus | 3.0 | 9 44 52.664 | +1.5014 | — 21 | —64 39 32.03 | —16.663 | — 1 |
| 370 | 6 Sextantis | 6.2 | 9 46 44.978 | +3.0242 | + 8 | — 3 49 33.22 | —16.782 | — 30 |
| 371 | [μ Leonis] | 4.0 | 9 47 42.290 | +3.4188 | — 162 | +26 25 35.65 | —16.855 | — 57 |
| 372 | Gr. 1586 | 6.3 | 9 50 27.008 | +5.4411 | — 180 | +73 18 11.91 | —16.973 | — 45 |
| 373 | [Hydrae 183 G.] | 5.5 | 9 50 40.346 | +2.8297 | — 24 | —18 35 15.12 | —17.004 | — 66 |
| 374 | [19 Leon. min.] | 5.2 | 9 52 14.317 | +3.6876 | — 100 | +41 28 47.55 | —17.038 | — 27 |
| 375 | [φ Argus] | 3.7 | 9 53 44.189 | +2.1025 | — 21 | —54 8 37.89 | —17.082 | — 2 |
| 377 | [η Antliae] | 5.3 | 9 55 3.065 | +2.5706 | — 83 | —35 27 52.78 | —17.164 | — 24 |
| 376 | [12 Sextantis] | 6.7 | 9 55 6.147 | +3.1140 | — 47 | + 3 48 38.34 | —17.115 | + 27 |
| 378 | π Leonis | 4.9 | 9 55 30.702 | +3.1733 | — 21 | + 8 28 17.77 | —17.186 | — 25 |
| 379 | η Leonis | 3.4 | 10 2 28.946 | +3.2752 | — 2 | +17 11 49.26 | —17.474 | — 6 |
| 380 | α Leonis | 1.3 | 10 3 38.032 | +3.1988 | — 167 | +12 24 9.03 | —17.518 | — 1 |
| 381 | λ Hydrae | 3.7 | 10 6 14.961 | +2.9249 | — 134 | —11 54 49.80 | —17.714 | — 87 |
| 382 | *q* Velorum | 3.9 | 10 10 59.832 | +2.5123 | — 154 | —41 40 50.37 | —17.776 | + 45 |
| 385 | [ω Argus] | 3.4 | 10 11 37.500 | +1.4334 | — 28 | —69 35 44.75 | —17.847 | 0 |
| 383 | λ Ursae maj. | 3.4 | 10 11 44.070 | +3.6320 | — 148 | +43 21 32.91 | —17.900 | — 49 |
| 384 | ζ Leonis | 3.4 | 10 11 44.582 | +3.3430 | + 15 | +23 51 40.33 | —17.858 | — 7 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0s.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0″.001 |
|---|---|---|---|---|---|---|---|---|
| | | | h m s | s | | ° ′ ″ | ″ | |
| 386 | μ Ursae maj. | 3.0 | 10 17 1.920 | +3.5872 | — 70 | +41 56 50.71 | —18.033 | + 24 |
| 387 | 30 H. Urs. maj. | 5.0 | 10 17 43.614 | +4.3664 | — 25 | +66 1 0.87 | —18.101 | — 18 |
| 388 | [25 Sextantis] | 6.2 | 10 18 56.589 | +3.0324 | — 40 | — 3 37 26.40 | —18.131 | — 2 |
| 389 | μ Hydrae | 3.9 | 10 21 47.144 | +2.9008 | — 85 | —16 22 54.10 | —18.315 | — 82 |
| 391 | *J* Carinae | 4.1 | 10 22 37.817 | +1.1968 | — 67 | —73 34 42.24 | —18.281 | — 17 |
| 390 | 31 Leon. min. | 4.2 | 10 22 44.478 | +3.4801 | — 96 | +37 9 48.98 | —18.374 | —106 |
| 392 | Lac. α Antliae | 4.2 | 10 23 4.668 | +2.7418 | — 62 | —30 36 51.73 | —18.270 | + 10 |
| 393 | *s* Carinae | 4.1 | 10 24 36.544 | +2.1950 | — 32 | —58 17 5.08 | —18.348 | — 14 |
| 394 | 36 Ursae maj. | 4.8 | 10 24 56.360 | +3.8626 | —217 | +56 26 14.25 | —18.379 | — 33 |
| 395 | 9 H. Dracon. | 4.9 | 10 27 33.532 | +5.1939 | — 96 | +76 10 18.89 | —18.442 | — 4 |
| 396 | [ρ Leonis] | 3.8 | 10 28 7.572 | +3.1617 | — 6 | + 9 45 53.54 | —18.462 | — 5 |
| 397 | [*p* Carinae] | 3.5 | 10 28 51.481 | +2.1283 | — 18 | —61 13 38.12 | —18.476 | + 5 |
| 398 | [37 Ursae maj.] | 5.2 | 10 29 26.253 | +3.8896 | + 83 | +57 32 28.89 | —18.465 | + 36 |
| 399 | [44 Hydrae] | 5.6 | 10 29 46.848 | +2.8517 | — 2 | —23 17 10.67 | —18.492 | + 21 |
| 400 | [*p* Velorum] | 4.0 | 10 33 33.436 | +2.5121 | —183 | —47 45 47.45 | —18.671 | — 34 |
| 401 | [γ Chamael.] | 4.2 | 10 34 25.522 | +0.7385 | —116 | —78 8 45.61 | —18.635 | + 30 |
| 402 | [*x* Velorum] | 4.4 | 10 35 45.545 | +2.3756 | — 75 | —55 8 22.69 | —18.728 | — 21 |
| 403 | [35 H. Urs. maj.] | 5.1 | 10 36 42.622 | +4.3441 | — 19 | +69 32 31.25 | —18.755 | — 18 |
| 404 | 33 Sextantis | 6.6 | 10 36 52.560 | +3.0526 | — 94 | — 1 16 24.62 | —18.867 | —125 |
| 405 | [41 Leon. min.] | 5.2 | 10 38 34.777 | +3.2681 | — 81 | +23 39 16.75 | —18.782 | + 13 |
| 406 | ϑ Argus | 2.8 | 10 39 46.758 | +2.1333 | — 26 | —63 55 40.55 | —18.826 | + 4 |
| 407 | 42 Leon. min. | 5.3 | 10 40 55.179 | +3.3443 | — 15 | +31 9 4.87 | —18.902 | — 37 |
| 408 | μ Argus | 2.7 | 10 42 56.267 | +2.5711 | + 49 | —48 56 59.25 | —18.988 | — 65 |
| 409 | *l* Leonis | 5.4 | 10 44 34.829 | +3.1563 | — 3 | +11 0 58.86 | —19.001 | — 30 |
| 411 | [δ² Chamael.] | 4.7 | 10 44 57.694 | +0.6055 | —119 | —80 4 14.36 | —18.972 | + 9 |
| 410 | [ν Hydrae] | 3.2 | 10 45 13.971 | +2.9585 | + 66 | —15 43 39.83 | —18.794 | +195 |
| 412 | [46 Leon. min.] | 3.9 | 10 48 20.298 | +3.3647 | + 76 | +34 41 41.71 | —19.356 | —282 |
| 414 | [ι Antliae] | 4.9 | 10 52 34.077 | +2.7903 | + 62 | —36 39 32.94 | —19.321 | —137 |
| 413 | [Br. 1508] | 6.4 | 10 52 51.882 | +4.9013 | —260 | +78 14 50.18 | —19.219 | — 26 |
| 415 | *i* Velorum | 4.5 | 10 56 4.104 | +2.7461 | + 20 | —41 44 54.15 | —19.275 | — 4 |
| 416 | β Ursae maj. | 2.3 | 10 56 28.720 | +3.6427 | +101 | +56 51 34.80 | —19.255 | + 26 |
| 417 | α Ursae maj. | 1.8 | 10 58 14.695 | +3.7307 | —175 | +62 13 53.98 | —19.394 | — 72 |
| 418 | χ Leonis | 4.8 | 11 0 25.630 | +3.0966 | —231 | + 7 49 2.47 | —19.418 | — 46 |
| 419 | [χ Hydrae] | 4.8 | 11 1 2.496 | +2.8853 | —154 | —26 48 47.10 | —19.393 | — 7 |
| 420 | ψ Ursae maj. | 3.0 | 11 4 39.891 | +3.3862 | — 57 | +44 58 53.57 | —19.500 | — 36 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0ˢ.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0″.001 |
|---|---|---|---|---|---|---|---|---|
| | | | h m s | s | | ° ′ ″ | ″ | |
| 421 | β Crateris | 4.3 | 11 7 16.749 | +2.9473 | 0 | −22 20 23.07 | −19.616 | − 98 |
| 422 | δ Leonis | 2.4 | 11 9 22.631 | +3.1956 | +106 | +21 0 41.31 | −19.695 | −136 |
| 423 | ϑ Leonis | 3.3 | 11 9 34.277 | +3.1514 | − 43 | +15 54 58.26 | −19.644 | − 81 |
| 424 | [Gr. 1757] | 6.1 | 11 11 41.229 | +3.3956 | − 97 | +49 57 43.52 | −19.625 | − 22 |
| 425 | ν Ursae maj. | 3.4 | 11 13 40.502 | +3.2491 | − 16 | +33 34 48.16 | −19.616 | + 22 |
| 426 | δ Crateris | 3.6 | 11 14 53.393 | +2.9971 | − 88 | −14 17 48.43 | −19.459 | +200 |
| 427 | σ Leonis | 4.1 | 11 16 32.878 | +3.0951 | − 62 | + 6 31 2.04 | −19.699 | − 12 |
| 428 | π Centauri | 4.1 | 11 16 56.645 | +2.7248 | − 41 | −54 0 11.41 | −19.706 | − 13 |
| 429 | Gr. 1771 | 6.2 | 11 17 34.591 | +3.5946 | − 10 | +64 49 3.81 | −19.669 | + 34 |
| 430 | [ι Leonis] | 4.0 | 11 19 17.137 | +3.1292 | +106 | +11 1 10.38 | −19.814 | − 84 |
| 431 | [γ Crateris] | 4.0 | 11 20 26.053 | +2.9943 | − 72 | −17 11 42.06 | −19.741 | + 7 |
| 432 | [58 Ursae maj.] | 6.1 | 11 25 42.432 | +3.2583 | − 44 | +43 39 42.70 | −19.750 | + 72 |
| 433 | λ Draconis | 3.6 | 11 26 7.993 | +3.5999 | − 80 | +69 49 20.55 | −19.849 | − 21 |
| 434 | ξ Hydrae | 3.6 | 11 28 37.303 | +2.9447 | −167 | −31 21 54.32 | −19.901 | − 43 |
| 435 | [C Centauri] | 5.5 | 11 31 36.469 | +2.8958 | + 13 | −47 8 52.78 | −19.939 | − 47 |
| 436 | λ Centauri | 3.3 | 11 31 40.230 | +2.7499 | − 58 | −62 31 38.28 | −19.910 | − 17 |
| 437 | υ Leonis | 4.4 | 11 32 23.510 | +3.0717 | + 1 | − 0 19 56.40 | −19.865 | + 36 |
| 438 | [π Chamael.] | 6.1 | 11 33 35.109 | +2.4546 | −277 | −75 24 13.49 | −19.918 | − 5 |
| 439 | [ο Hydrae] | 4.8 | 11 35 47.404 | +2.9736 | − 30 | −34 15 4.80 | −19.933 | + 1 |
| 440 | 3 Draconis | 5.4 | 11 37 31.103 | +3.3767 | − 78 | +67 14 15.35 | −19.910 | + 40 |
| 441 | χ Ursae maj. | 3.8 | 11 41 21.330 | +3.1810 | −134 | +48 16 22.47 | −19.960 | + 20 |
| 442 | [λ Muscae] | 3.7 | 11 41 24.004 | +2.8113 | −152 | −66 14 7.16 | −19.960 | + 20 |
| 443 | [Centauri 65 G.] | 4.2 | 11 42 12.194 | +2.8854 | − 25 | −60 41 0.91 | −20.020 | − 35 |
| 444 | β Leonis | 2.1 | 11 44 31.269 | +3.0627 | −341 | +15 4 10.61 | −20.118 | −118 |
| 445 | β Virginis | 3.5 | 11 46 3.559 | +3.1252 | +494 | + 2 15 58.60 | −20.285 | −276 |
| 446 | [B Centauri] | 4.8 | 11 46 41.402 | +2.9848 | −111 | −44 40 42.14 | −20.058 | − 46 |
| 447 | γ Ursae maj. | 2.3 | 11 49 9.284 | +3.1709 | +108 | +54 11 22.47 | −20.021 | + 2 |
| 448 | [ε Chamael.] | 5.0 | 11 55 11.480 | +2.9276 | −160 | −77 43 34.34 | −20.050 | − 9 |
| 449 | [Centauri 88 G.] | 5.5 | 11 59 2.693 | +3.0942 | +267 | −41 56 8.54 | −20.168 | −122 |
| 450 | ο Virginis | 4.1 | 12 0 40.563 | +3.0572 | −147 | + 9 13 38.03 | −20.008 | + 38 |
| 451 | [Gr. 1852] | 6.0 | 12 0 44.475 | +3.0971 | +440 | +77 24 12.35 | −20.142 | − 96 |
| 452 | δ Centauri | 2.7 | 12 3 44.443 | +3.0944 | − 44 | −50 13 36.19 | −20.061 | − 18 |
| 453 | ε Corvi | 3.0 | 12 5 32.708 | +3.0806 | − 51 | −22 7 29.24 | −20.029 | + 11 |
| 454 | 4 H. Draconis | 5.0 | 12 8 2.516 | +2.8521 | + 23 | +78 6 38.78 | −20.011 | + 23 |
| 455 | [δ Crucis] | 3.0 | 12 10 24.764 | +3.1656 | − 50 | −58 15 14.17 | −20.052 | − 27 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0s.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0".001 |
|---|---|---|---|---|---|---|---|---|
| | | | h m s | s | | ° ' " | " | |
| 456 | δ Ursae maj. | 3.4 | 12 11 1.608 | +2.9851 | +136 | +57 31 37.34 | −20.020 | + 3 |
| 457 | [γ Corvi] | 2.4 | 12 11 13.626 | +3.0814 | −112 | −17 2 52.14 | −20.005 | + 17 |
| 458 | [2 Can. ven.] | 5.9 | 12 11 40.178 | +3.0157 | + 26 | +41 9 19.78 | −20.065 | − 45 |
| 459 | β Chamael. | 4.4 | 12 13 6.308 | +3.4446 | −142 | −78 49 5.10 | −20.001 | + 12 |
| 460 | η Virginis | 3.7 | 12 15 21.125 | +3.0686 | − 42 | − 0 10 20.17 | −20.024 | − 23 |
| 461 | [6 Can. ven.] | 5.3 | 12 21 28.029 | +2.9628 | − 67 | +39 30 44.34 | −19.994 | − 36 |
| 462 | α Crucis md. | 1.0 | 12 21 38.680 | +3.3113 | − 44 | −62 36 22.60 | −19.988 | − 31 |
| 463 | [Hydr. 323 G.] | 5.7 | 12 22 10.047 | +3.1528 | − 14 | −32 20 12.67 | −20.001 | − 49 |
| 464 | [σ Centauri] | 4.1 | 12 23 13.289 | +3.2286 | − 36 | −49 44 16.13 | −19.976 | − 33 |
| 466 | 20 Comae | 6.0 | 12 25 15.070 | +3.0175 | + 26 | +21 23 19.78 | −19.963 | − 39 |
| 465 | δ Corvi | 2.8 | 12 25 15.441 | +3.1003 | −145 | −16 1 12.12 | −20.066 | −142 |
| 467 | [74 Ursae maj.] | 5.6 | 12 25 48.170 | +2.8140 | − 96 | +58 53 43.17 | −19.831 | + 88 |
| 468 | [γ Crucis] | 1.6 | 12 26 13.316 | +3.3066 | + 26 | −56 36 53.93 | −20.193 | −278 |
| 469 | [γ Muscae] | 3.9 | 12 27 8.368 | +3.5401 | − 81 | −71 38 29.42 | −19.927 | − 22 |
| 470 | 8 Can. ven. | 4.3 | 12 29 31.149 | +2.8563 | −625 | +41 50 27.37 | −19.600 | +280 |
| 472 | κ Draconis | 3.6 | 12 29 41.410 | +2.5792 | −117 | +70 16 43.34 | −19.870 | + 7 |
| 471 | β Corvi | 2.6 | 12 29 42.543 | +3.1451 | − 4 | −22 54 16.86 | −19.937 | − 59 |
| 473 | 24 Comae seq. | 5.1 | 12 30 39.998 | +3.0118 | + 2 | +18 52 0.84 | −19.848 | + 18 |
| 474 | α Muscae | 2.8 | 12 31 51.963 | +3.5407 | − 55 | −68 38 43.18 | −19.884 | − 32 |
| 475 | [χ Virginis] | 4.9 | 12 34 39.096 | +3.0941 | − 49 | − 7 30 21.38 | −19.854 | − 37 |
| 476 | γ Centauri | 2.3 | 12 36 36.127 | +3.2921 | −205 | −48 28 16.05 | −19.810 | − 19 |
| 477 | [γ Virgin. m.] | 3.5,3.5 | 12 37 8.985 | +3.0386 | −375 | − 0 57 41.23 | −19.778 | + 5 |
| 478 | 76 Ursae maj. | 6.2 | 12 37 40.894 | +2.6350 | − 45 | +63 12 5.66 | −19.792 | − 17 |
| 479 | [Hydr. 330 G.] | 5.9 | 12 39 15.713 | +3.1903 | − 26 | −27 50 8.55 | −19.802 | − 50 |
| 480 | [β Muscae] | 3.2 | 12 40 48.700 | +3.6422 | − 53 | −67 37 15.78 | −19.760 | − 31 |
| 481 | β Crucis | 1.4 | 12 42 30.761 | +3.4802 | − 59 | −59 12 8.47 | −19.729 | − 27 |
| 482 | n Centauri | 4.4 | 12 48 30.130 | +3.3101 | + 45 | −39 41 42.33 | −19.636 | − 37 |
| 483 | ε Ursae maj. | 1.7 | 12 50 7.041 | +2.6492 | +137 | +56 26 33.88 | −19.580 | − 11 |
| 484 | δ Virginis | 3.4 | 12 51 7.188 | +3.0209 | −315 | + 3 52 51.14 | −19.612 | − 63 |
| 485 | 12 Can. ven. sq. | 2.8 | 12 51 52.002 | +2.8116 | −199 | +38 47 55.81 | −19.484 | + 50 |
| 486 | 8 Draconis | 5.2 | 12 51 56.165 | +2.3991 | − 15 | +65 55 16.12 | −19.567 | − 34 |
| 487 | [δ Muscae] | 3.6 | 12 56 7.926 | +4.0700 | +527 | −71 4 8.57 | −19.484 | − 36 |
| 488 | ε Virginis | 2.8 | 12 57 44.795 | +2.9866 | −185 | +11 26 14.32 | −19.395 | + 18 |
| 489 | [ξ² Centauri] | 4.3 | 13 1 42.496 | +3.4843 | − 35 | −49 25 47.39 | −19.353 | − 30 |
| 490 | θ Virginis | 4.3 | 13 5 20.426 | +3.1034 | − 24 | − 5 3 50.77 | −19.276 | − 39 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0s.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0".001 |
|---|---|---|---|---|---|---|---|---|
| | | | h m s | s | | ° ′ ″ | ″ | |
| 491 | [17 Can. ven.] | 6.1 | 13 5 58.127 | +2.7597 | − 59 | +38 58 17.91 | −19.190 | + 32 |
| 492 | 43 Comae | 4.2 | 13 7 43.281 | +2.8025 | −602 | +28 19 44.63 | −18.298 | +879 |
| 493 | [η Muscae] | 5.0 | 13 9 12.354 | +4.0252 | − 33 | −67 25 23.56 | −19.168 | − 30 |
| 494 | [20 Can. ven.] | 4.6 | 13 13 33.229 | +2.6948 | −108 | +41 2 27.06 | −19.014 | + 8 |
| 495 | γ Hydrae | 3.1 | 13 14 4.825 | +3.2553 | + 51 | −22 42 8.27 | −19.061 | − 53 |
| 496 | ι Centauri | 2.9 | 13 15 35.334 | +3.3605 | −293 | −36 14 35.23 | −19.057 | − 92 |
| 497 | ζ Urs. maj. pr. | 2.2 | 13 20 20.665 | +2.4218 | +144 | +55 23 23.73 | −18.852 | − 25 |
| 498 | α Virginis | 1.1 | 13 20 30.141 | +3.1566 | − 28 | −10 41 49.41 | −18.855 | − 33 |
| 499 | Gr. 2001 | 6.2 | 13 23 51.811 | +1.5262 | + 35 | +72 51 12.50 | −18.733 | − 15 |
| 500 | 69 H. Urs. maj. | 5.5 | 13 25 11.220 | +2.2070 | −110 | +60 24 18.93 | −18.640 | + 37 |
| 501 | ζ Virginis | 3.3 | 13 30 9.423 | +3.0548 | −190 | − 0 8 28.34 | −18.480 | + 35 |
| 502 | 17 H. Can. ven. | 4.9 | 13 30 49.444 | +2.6812 | + 64 | +37 38 17.09 | −18.506 | − 14 |
| 503 | [Chamael. 49 G.] | 6.4 | 13 31 33.545 | +5.0391 | − 49 | −75 13 48.73 | −18.481 | − 14 |
| 504 | ε Centauri | 2.4 | 13 34 14.447 | +3.7780 | − 37 | −53 0 51.32 | −18.409 | − 34 |
| 505 | [Gr. 2029] | 5.9 | 13 35 2.623 | +1.4362 | − 86 | +71 41 42.01 | −18.347 | 0 |
| 506 | [*i* Centauri] | 4.3 | 13 40 37.549 | +3.3987 | −371 | −32 35 38.33 | −18.301 | −156 |
| 507 | τ Bootis | 4.5 | 13 43 1.969 | +2.8509 | −340 | +17 53 59.90 | −18.025 | + 29 |
| 509 | η Ursae maj. | 1.8 | 13 44 2.125 | +2.3682 | −119 | +49 45 25.79 | −18.036 | − 20 |
| 508 | [μ Centauri] | 3.3 | 13 44 14.966 | +3.5989 | − 28 | −42 1 50.00 | −18.027 | − 19 |
| 510 | 89 Virginis | 5.2 | 13 45 1.994 | +3.2542 | − 69 | −17 41 28.10 | −18.016 | − 38 |
| 511 | [*i* Draconis] | 4.8 | 13 48 49.973 | +1.7524 | 0 | +65 9 45.88 | −17.830 | − 2 |
| 512 | ζ Centauri | 2.6 | 13 49 58.843 | +3.7237 | − 70 | −46 51 2.27 | −17.842 | − 60 |
| 513 | η Bootis | 2.8 | 13 50 26.823 | +2.8570 | − 42 | +18 50 36.60 | −18.127 | −364 |
| 514 | [Cent. 294 G.] | 4.9 | 13 51 11.836 | +4.3046 | − 46 | −63 15 2.62 | −17.767 | − 35 |
| 515 | [47 Hydrae] | 5.5 | 13 53 31.321 | +3.3591 | − 34 | −24 32 17.53 | −17.677 | − 40 |
| 516 | τ Virginis | 4.2 | 13 57 6.964 | +3.0513 | + 13 | + 1 58 29.29 | −17.515 | − 30 |
| 517 | 11 Bootis | 6.3 | 13 57 8.386 | +2.7220 | − 57 | +27 48 57.93 | −17.476 | + 8 |
| 518 | β Centauri | 1 | 13 57 31.989 | +4.2029 | − 28 | −59 56 38.89 | −17.507 | − 40 |
| 519 | [π Hydrae] | 3.4 | 14 1 17.966 | +3.4083 | + 29 | −26 15 14.58 | −17.456 | −153 |
| 520 | ϑ Centauri | 2.1 | 14 1 26.382 | +3.5182 | −439 | −35 55 57.15 | −17.827 | −530 |
| 521 | α Draconis | 3.4 | 14 1 58.736 | +1.6230 | − 83 | +64 48 3.68 | −17.256 | + 17 |
| 522 | *d* Bootis | 4.9 | 14 6 20.431 | +2.7373 | − 12 | +25 30 46.41 | −17.146 | − 69 |
| 523 | ϰ Virginis | 4.2 | 14 8 8.763 | +3.1962 | + 4 | − 9 51 35.51 | −16.859 | +134 |
| 524 | 4 Ursae min. | 5.0 | 14 9 10.693 | −0.2879 | −113 | +77 57 56.65 | −16.913 | + 32 |
| 525 | ι Virginis | 4.0 | 14 11 20.727 | +3.1419 | − 14 | − 5 34 34.60 | −17.274 | −431 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0s.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0".001 |
|---|---|---|---|---|---|---|---|---|
| | | | h m s | s | | ° ′ ″ | ″ | |
| 526 | α Bootis | 1 | 14 11 36.093 | +2.7356 | — 778 | +19 38 43.38 | —18.830 | —1999 |
| 527 | λ Bootis | 4.0 | 14 13 0.076 | +2.2827 | — 177 | +46 29 47.84 | —16.612 | + 152 |
| 528 | [ι Bootis] | 4.6 | 14 13 0.874 | +2.1262 | — 159 | +51 46 38.77 | —16.677 | + 86 |
| 529 | [υ Centauri] | 4.4 | 14 14 5.938 | +4.1612 | — 47 | —55 58 37.48 | —16.751 | — 39 |
| 530 | [Circini 10 G.] | 5.9 | 14 17 42.529 | +4.9190 | — 41 | —67 47 28.37 | —16.571 | — 36 |
| 531 | ϑ Bootis | 3.9 | 14 22 10.046 | +2.0431 | — 257 | +52 15 42.43 | —16.715 | — 404 |
| 532 | [52 Hydrae] | 5.1 | 14 22 57.400 | +3.5040 | — 28 | —29 5 31.72 | —16.301 | — 30 |
| 533 | [φ Virginis] | 5.0 | 14 23 36.919 | +3.0886 | — 90 | — 1 49 46.05 | —16.244 | — 7 |
| 534 | ρ Bootis | 3.7 | 14 27 59.678 | +2.5863 | — 75 | +30 45 42.00 | —15.897 | + 113 |
| 535 | γ Bootis | 2.9 | 14 28 29.684 | +2.4171 | — 93 | +38 41 49.75 | —15.839 | + 145 |
| 536 | [Gr. 2125] | 6.4 | 14 29 17.820 | +1.6276 | — 59 | +60 37 3.16 | —15.922 | + 19 |
| 537 | η Centauri | 2.5 | 14 29 51.015 | +3.7949 | — 36 | —41 46 2.62 | —15.948 | — 36 |
| 538 | α Centauri[1]) | 1 | 14 33 32.725 | +4.0506 | —4868 | —60 28 6.96 | —14.997 | + 716 |
| 539 | [α Circini] | 3.3 | 14 35 18.017 | +4.8042 | — 320 | —64 35 17.29 | —15.855 | — 238 |
| 540 | [33 Bootis] | 5.5 | 14 35 31.511 | +2.2331 | — 68 | +44 47 17.95 | —15.630 | — 26 |
| 541 | [α Lupi] | 2.4 | 14 36 0.256 | +3.9726 | — 20 | —47 0 24.36 | —15.614 | — 36 |
| 542 | α Apodis | 3.8 | 14 36 45.322 | +7.2806 | — 57 | —78 40 4.72 | —15.571 | — 35 |
| 543 | ζ Bootis m. | 3.6 | 14 36 53.894 | +2.8638 | + 37 | +14 6 34.47 | —15.556 | — 27 |
| 544 | [c¹ Centauri] | 4.1 | 14 38 12.546 | +3.6576 | — 62 | —34 47 27.63 | —15.654 | — 198 |
| 545 | μ Virginis | 3.9 | 14 38 22.081 | +3.1580 | + 69 | — 5 16 18.50 | —15.774 | — 327 |
| 546 | [b Lupi] | 5.9 | 14 40 47.343 | +4.1744 | — 25 | —52 0 26.68 | —15.404 | — 92 |
| 547 | 109 Virginis | 3.7 | 14 41 44.890 | +3.0308 | — 75 | + 2 16 2.52 | —15.296 | — 39 |
| 548 | α Librae | 2.7 | 14 45 57.128 | +3.3132 | — 77 | —15 40 20.93 | —15.090 | — 73 |
| 549 | Gr. 2164 | 5.8 | 14 49 10.758 | +1.5193 | — 170 | +59 39 19.17 | —14.698 | + 130 |
| 550 | β Ursae min. | 2.0 | 14 50 57.206 | —0.2098 | — 79 | +74 31 9.29 | —14.716 | + 7 |
| 551 | P. XIV, 221 | 6.0 | 14 52 1.145 | +2.8306 | — 10 | +14 48 19.47 | —14.678 | — 18 |
| 552 | β Lupi | 2.7 | 14 52 41.776 | +3.9135 | — 51 | —42 46 33.85 | —14.679 | — 60 |
| 553 | [κ Centauri] | 3.2 | 14 53 21.965 | +3.8891 | — 21 | —41 44 51.46 | —14.612 | — 33 |
| 554 | [2H. Urs. min.] | 4.8 | 14 56 9.824 | +0.9427 | — 148 | +66 17 12.55 | —14.376 | + 34 |
| 555 | β Bootis | 3.3 | 14 58 35.613 | +2.2600 | — 36 | +40 44 28.00 | —14.304 | — 43 |
| 556 | γ Scorpii | 3.4 | 14 58 51.452 | +3.5040 | — 57 | —24 55 58.14 | —14.300 | — 55 |
| 557 | ψ Bootis | 4.5 | 15 0 37.912 | +2.5705 | — 131 | +27 17 38.98 | —14.151 | — 15 |
| 558 | ζ Lupi | 3.4 | 15 5 53.005 | +4.2889 | — 133 | —51 45 40.05 | —13.879 | — 72 |
| 559 | [ι Librae] | 4.6 | 15 7 8.710 | +3.4134 | — 32 | —19 27 19.88 | —13.773 | — 47 |
| 561 | [β Circini] | 4.2 | 15 10 32.227 | +4.6689 | — 130 | —58 28 10.21 | —13.657 | — 149 |

[1]) Schwerpunkt des Systems. Abstände vom Schwerpunkt (Peters, Neuer Fundamental-Katalog, Seite 98):

| | | | |
|---|---|---|---|
| heller Stern | 1911.0: | Δα = + 0s.699 | Δδ = + 7".43 |
| | 1912.0: | + 0 .693 | + 7 .22 |
| Begleiter | 1911.0: | Δα = — 0s.823 | Δδ = — 8".74 |
| | 1912.0: | — 0 .816 | — 8 .49 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0s.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0".001 |
|---|---|---|---|---|---|---|---|---|
| | | | h m s | s | | ° ′ ″ | ″ | |
| 560 | γ Triang. austr. | 2.9 | 15 10 35.160 | +5.5507 | —101 | —68 21 5.73 | —13.542 | — 37 |
| 562 | [3 Serpentis] | 5.5 | 15 10 45.850 | +2.9801 | — 12 | + 5 16 9.01 | —13.500 | — 7 |
| 563 | δ Bootis | 3.2 | 15 11 54.879 | +2.4190 | + 73 | +33 38 46.87 | —13.541 | — 122 |
| 564 | β Librae | 2.5 | 15 12 12.946 | +3.2245 | — 64 | — 9 3 18.45 | —13.426 | — 27 |
| 565 | 1 H. Urs. min. | 5.3 | 15 13 36.758 | +0.6762 | +385 | +67 41 4.32 | —13.704 | — 396 |
| 566 | φ¹ Lupi | 3.5 | 15 16 9.248 | +3.7959 | — 82 | —35 56 20.91 | —13.236 | — 94 |
| 569 | γ Ursae min. | 3.0 | 15 20 51.671 | —0.1198 | — 32 | +72 9 2.46 | —12.811 | + 16 |
| 568 | μ Bootis | 4.1 | 15 21 7.676 | +2.2661 | —123 | +37 41 19.75 | —12.729 | + 81 |
| 570 | [τ¹ Serpentis] | 5.5 | 15 21 39.683 | +2.7812 | — 11 | +15 44 25.37 | —12.797 | — 24 |
| 567 | [κ¹ Apodis] | 5.9 | 15 21 47.538 | +6.4607 | + 5 | —73 4 54.49 | —12.803 | — 37 |
| 571 | ι Draconis | 3.2 | 15 22 56.889 | +1.3310 | — 5 | +59 16 39.21 | —12.672 | + 14 |
| 572 | β Coron. bor. | 3.7 | 15 24 9.567 | +2.4736 | —131 | +29 24 43.11 | —12.528 | + 76 |
| 573 | ν¹ Bootis | 4.8 | 15 27 43.931 | +2.1546 | + 10 | +41 8 9.55 | —12.373 | — 13 |
| 574 | [ε Triang. austr.] | 4.3 | 15 28 33.707 | +5.4473 | + 29 | —66 1 7.00 | —12.384 | — 82 |
| 575 | γ Lupi | 2.9 | 15 29 12.269 | +3.9849 | — 26 | —40 52 5.74 | —12.298 | — 39 |
| 576 | [ϑ Coron. bor.] | 4.1 | 15 29 20.423 | +2.4185 | — 17 | +31 39 32.18 | —12.275 | — 26 |
| 577 | γ Librae | 4.1 | 15 30 32.722 | +3.3514 | + 43 | —14 29 35.83 | —12.162 | + 3 |
| 578 | α Coron. bor. | 2.2 | 15 30 55.158 | +2.5397 | + 93 | +27 0 49.20 | —12.238 | — 98 |
| 579 | [3 H. Scorpii] | 3.9 | 15 31 37.060 | +3.6344 | — 11 | —27 50 27.49 | —12.101 | — 11 |
| 580 | [φ Bootis] | 5.3 | 15 34 37.816 | +2.1543 | + 58 | +40 38 33.79 | —11.828 | + 52 |
| 581 | [γ Coron. bor.] | 3.8 | 15 39 0.304 | +2.5192 | — 74 | +26 34 37.17 | —11.535 | + 34 |
| 582 | α Serpentis | 2.5 | 15 39 52.988 | +2.9530 | + 91 | + 6 42 18.10 | —11.464 | + 42 |
| 583 | β Serpentis | 3.4 | 15 42 4.770 | +2.7680 | + 51 | +15 41 59.04 | —11.403 | — 55 |
| 584 | κ Serpentis | 4.0 | 15 44 43.987 | +2.6997 | — 31 | +18 24 56.90 | —11.254 | — 98 |
| 585 | μ Serpentis | 3.3 | 15 44 58.435 | +3.1279 | — 59 | — 3 9 30.62 | —11.170 | — 31 |
| 586 | [χ Lupi] | 4.1 | 15 45 17.951 | +3.8031 | — 15 | —33 21 23.97 | —11.145 | — 30 |
| 587 | [12 H. Dracon.] | 5.3 | 15 45 18.403 | +0.9071 | + 55 | +62 52 27.80 | —11.176 | — 62 |
| 588 | ε Serpentis | 3.5 | 15 46 22.702 | +2.9884 | + 84 | + 4 44 41.94 | —10.977 | + 59 |
| 590 | ζ Ursae min. | 4.3 | 15 47 12.815 | —2.2137 | + 60 | +78 4 7.41 | —10.976 | — 1 |
| 589 | β Triang. austr. | 2.9 | 15 47 17.468 | +5.2548 | —280 | —63 9 24.58 | —11.376 | — 407 |
| 591 | [γ Serpentis] | 3.7 | 15 52 20.480 | +2.7695 | +212 | +15 57 5.16 | —11.892 | —1295 |
| 592 | [π Scorpii] | 4.1 | 15 53 27.864 | +3.6226 | — 15 | —25 51 31.21 | —10.551 | — 37 |
| 593 | ε Coron. bor. | 4.0 | 15 53 54.130 | +2.4826 | — 61 | +27 8 6.06 | —10.550 | — 68 |
| 594 | δ Scorpii | 2.3 | 15 55 4.094 | +3.5420 | — 8 | —22 22 9.02 | —10.430 | — 36 |
| 595 | [Gr. 2296] | 5.1 | 15 55 40.614 | +1.4192 | —187 | +55 0 3.22 | —10.238 | + 111 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0ˢ.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0″.001 |
|---|---|---|---|---|---|---|---|---|
| 596 | [δ Normae] | 4.8 | 16ʰ 0ᵐ 11ˢ.761 | +4ˢ.2272 | − 5 | −44° 55′ 57″.41 | −10″.002 | + 6 |
| 598 | ϑ Draconis | 3.8 | 16 0 13.193 | +1.1201 | −402 | +58 48 9.73 | − 9.666 | +340 |
| 597 | β Scorpii | 2.6 | 16 0 15.562 | +3.4833 | − 7 | −19 33 45.28 | −10.030 | − 27 |
| 599 | [ϑ Lupi] | 4.4 | 16 0 44.616 | +3.9296 | − 29 | −36 33 38.57 | −10.007 | − 41 |
| 601 | [φ Herculis] | 4.0 | 16 5 57.897 | +1.8890 | − 23 | +45 10 3.97 | − 9.537 | + 31 |
| 600 | [κ Normae] | 5.3 | 16 6 27.080 | +4.7106 | − 42 | −54 24 4.58 | − 9.595 | − 65 |
| 602 | [δ Triang. austr.] | 4.0 | 16 7 19.694 | +5.4320 | + 7 | −63 27 33.05 | − 9.488 | − 26 |
| 603 | δ Ophiuchi | 2.8 | 16 9 40.810 | +3.1413 | − 30 | − 3 27 57.14 | − 9.431 | −150 |
| 604 | γ² Normae | 4.2 | 16 13 10.469 | +4.4732 | −190 | −49 56 16.70 | − 9.070 | − 61 |
| 606 | 19 Ursae min. | 5.8 | 16 13 20.821 | −1.7544 | − 4 | +76 6 7.26 | − 8.983 | + 12 |
| 605 | ε Ophiuchi | 3.2 | 16 13 36.636 | +3.1714 | + 53 | − 4 28 34.61 | − 8.944 | + 31 |
| 607 | [σ Scorpii] | 3.1 | 16 15 46.562 | +3.6410 | − 11 | −25 22 48.06 | − 8.838 | − 33 |
| 608 | τ Herculis | 3.6 | 16 17 3.892 | +1.8020 | − 9 | +46 31 29.53 | − 8.671 | + 32 |
| 609 | γ Herculis | 3.5 | 16 17 59.589 | +2.6450 | − 36 | +19 21 41.50 | − 8.590 | + 40 |
| 610 | [ζ Triang. austr.] | 5.2 | 16 18 52.822 | +6.4086 | +366 | −69 53 5.66 | − 8.478 | + 83 |
| 611 | γ Apodis | 3.9 | 16 19 46.068 | +9.0920 | −385 | −78 41 55.77 | − 8.561 | − 70 |
| 612 | [η Ursae min.] | 5.1 | 16 20 5.513 | − 1.7935 | −215 | +75 57 38.95 | − 8.208 | +256 |
| 613 | [ω Herculis] | 4.7 | 16 21 18.462 | +2.7673 | + 28 | +14 14 14.85 | − 8.436 | − 68 |
| 614 | [Gr. 2343] | 5.8 | 16 22 28.478 | +1.3096 | + 20 | +55 24 25.77 | − 8.257 | + 18 |
| 615 | η Draconis | 2.7 | 16 22 46.976 | +0.8063 | − 28 | +61 42 55.74 | − 8.190 | + 61 |
| 616 | α Scorpii | 1.2 | 16 23 56.871 | +3.6735 | − 7 | −26 14 6.96 | − 8.186 | − 28 |
| 618 | β Herculis | 2.6 | 16 26 23.601 | +2.5779 | − 69 | +21 40 58.50 | − 7.982 | − 20 |
| 617 | [λ Ophiuchi] | 3.7 | 16 26 25.406 | +3.0236 | − 23 | + 2 10 40.57 | − 8.049 | − 90 |
| 619 | *A* Draconis | 5.0 | 16 28 9.088 | −0.1316 | − 51 | +68 57 38.61 | − 7.785 | + 35 |
| 620 | [τ Scorpii] | 2.9 | 16 30 20.355 | +3.7293 | − 11 | −28 1 55.76 | − 7.677 | − 33 |
| 621 | σ Herculis | 4.1 | 16 31 14.007 | +1.9333 | − 6 | +42 37 12.42 | − 7.533 | + 38 |
| 622 | ζ Ophiuchi | 2.6 | 16 32 15.395 | +3.3007 | + 9 | −10 23 15.19 | − 7.466 | + 22 |
| 623 | [Gr. 2373] | 6.5 | 16 34 27.305 | −2.6301 | −315 | +77 37 27.06 | − 7.034 | +275 |
| 624 | [24 Scorpii] | 5.2 | 16 36 25.420 | +3.4660 | − 18 | −17 34 14.24 | − 7.152 | − 2 |
| 625 | α Triang. austr. | 1.9 | 16 39 13.814 | +6.3204 | + 32 | −68 51 55.82 | − 6.968 | − 49 |
| 626 | η Herculis | 3.3 | 16 39 50.667 | +2.0560 | + 34 | +39 5 27.80 | − 6.953 | − 84 |
| 627 | Gr. 2377 | 4.9 | 16 43 36.448 | +1.1352 | + 29 | +56 56 26.05 | − 6.501 | + 58 |
| 628 | ε Scorpii | 2.3 | 16 44 23.738 | +3.8795 | −501 | −34 7 56.60 | − 6.747 | −254 |
| 629 | 49 Herculis | 6.5 | 16 48 1.697 | +2.7303 | + 12 | +15 7 22.38 | − 6.199 | − 6 |
| 630 | ζ² Scorpii | 3.8 | 16 48 18.986 | +4.2125 | −134 | −42 12 34.81 | − 6.406 | −237 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0ˢ.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0″.001 |
|---|---|---|---|---|---|---|---|---|
| 631 | ζ Arae | 3.0 | 16ʰ 51ᵐ 15ˢ.026 | +4ˢ.9518 | — 30 | −55° 51′ 1″.80 | −5″.971 | — 48 |
| 632 | [ε¹ Arae] | 4.0 | 16 52 29.106 | +4.7692 | — 19 | −53 1 28.56 | −5.828 | — 8 |
| 633 | κ Ophiuchi | 3.2 | 16 53 27.290 | +2.8381 | −198 | + 9 30 45.74 | −5.752 | — 12 |
| 634 | ε Herculis | 3.6 | 16 56 53.041 | +2.2946 | — 35 | +31 3 24.82 | −5.427 | + 24 |
| 635 | [60 Herculis] | 4.9 | 17 1 15.024 | +2.7807 | + 34 | +12 51 44.50 | −5.097 | — 15 |
| 636 | [Gr. 2415] | 6.4 | 17 4 52.514 | +1.9559 | — 29 | +40 37 54.88 | −4.803 | — 28 |
| 637 | η Ophiuchi | 2.4 | 17 5 16.348 | +3.4378 | + 23 | −15 36 55.69 | −4.651 | + 90 |
| 638 | [η Scorpii] | 3.4 | 17 5 46.570 | +4.2909 | + 16 | −43 7 21.68 | −4.997 | −298 |
| 639 | ζ Draconis | 3.0 | 17 8 31.599 | +0.1675 | — 28 | +65 49 27.08 | −4.443 | + 22 |
| 640 | α Herculis | (3.0) | 17 10 35.319 | +2.7343 | — 8 | +14 29 27.94 | −4.260 | + 29 |
| 641 | δ Herculis | 3.0 | 17 11 22.530 | +2.4634 | — 15 | +24 56 36.82 | −4.380 | −159 |
| 643 | π Herculis | 3.1 | 17 11 56.808 | +2.0887 | — 21 | +36 54 32.16 | −4.171 | + 1 |
| 642 | [ι Apodis] | 5.7 | 17 12 9.809 | +6.6692 | — 14 | −70 1 50.93 | −4.180 | — 27 |
| 644 | ϑ Ophiuchi | 3.2 | 17 16 32.523 | +3.6814 | — 7 | −24 54 41.26 | −3.803 | — 25 |
| 645 | β Arae | 2.7 | 17 17 53.909 | +4.9791 | — 14 | −55 26 48.23 | −3.704 | — 42 |
| 646 | [*d* Ophiuchi] | 4.5 | 17 21 40.160 | +3.8274 | + 6 | −29 47 14.07 | −3.482 | −145 |
| 647 | [27 H. Ophiuchi] | 4.5 | 17 21 54.505 | +3.1822 | — 58 | − 5 0 31.19 | −3.367 | — 51 |
| 648 | δ Arae | 3.6 | 17 23 3.704 | +5.4075 | — 70 | −60 36 37.86 | −3.318 | −101 |
| 650 | [*x* Herculis] | 6.0 | 17 24 22.672 | +1.5891 | + 2 | +48 20 3.19 | −3.122 | — 19 |
| 649 | [υ Scorpii] | 2.8 | 17 24 42.575 | +4.0735 | — 24 | −37 13 32.26 | −3.114 | — 39 |
| 651 | α Arae | 2.8 | 17 24 57.563 | +4.6320 | — 39 | −49 48 23.55 | −3.146 | — 94 |
| 652 | λ Scorpii | 1.7 | 17 27 33.776 | +4.0696 | — 14 | −37 2 22.81 | −2.860 | — 32 |
| 653 | β Draconis | 2.7 | 17 28 25.272 | +1.3542 | — 15 | +52 22 0.84 | −2.744 | + 10 |
| 655 | [ν¹ Draconis] | 4.7 | 17 30 25.386 | +1.1802 | +176 | +55 14 41.01 | −2.529 | + 50 |
| 657 | [ν² Draconis] | 4.8 | 17 30 30.789 | +1.1814 | +182 | +55 13 59.67 | −2.520 | + 52 |
| 656 | α Ophiuchi | 2.1 | 17 30 48.150 | +2.7836 | + 79 | +12 37 26.79 | −2.780 | −233 |
| 654 | ϑ Scorpii | 1.9 | 17 30 55.285 | +4.3063 | 0 | −42 56 31.53 | −2.554 | — 18 |
| 659 | [*f* Draconis] | 5.2 | 17 32 19.079 | −0.2461 | — 31 | +68 11 30.40 | −2.281 | +134 |
| 658 | ξ Serpentis | 3.5 | 17 32 29.365 | +3.4331 | — 34 | −15 20 35.85 | −2.465 | — 64 |
| 660 | [κ Scorpii] | 2.5 | 17 36 19.742 | +4.1469 | — 15 | −38 59 5.55 | −2.093 | — 26 |
| 663 | ι Herculis | 3.6 | 17 36 57.119 | +1.6926 | — 5 | +46 3 11.39 | −2.016 | — 4 |
| 661 | η Pavonis | 3.5 | 17 36 59.667 | +5.8810 | — 22 | −64 40 55.92 | −2.065 | — 56 |
| 662 | [μ Arae] | 5.6 | 17 37 4.564 | +4.7586 | — 29 | −51 47 15.17 | −2.210 | −208 |
| 664 | ω Draconis | 4.9 | 17 37 28.228 | −0.3548 | + 14 | +68 47 57.04 | −1.644 | +323 |
| 665 | β Ophiuchi | 2.8 | 17 39 4.522 | +2.9626 | — 27 | + 4 36 13.40 | −1.675 | +153 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0ˢ.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0″.001 |
|---|---|---|---|---|---|---|---|---|
| | | | h m s | s | | ° ′ ″ | ″ | |
| 666 | [ι¹ Scorpii] | 3.0 | 17 41 21.485 | +4.1929 | − 10 | −40 5 35.72 | −1.631 | − 3 |
| 667 | μ Herculis | 3.3 | 17 42 58.466 | +2.3465 | − 242 | +27 46 19.73 | −2.238 | −750 |
| 668 | [γ Ophiuchi] | 3.7 | 17 43 25.775 | +3.0072 | − 16 | + 2 44 24.12 | −1.525 | − 77 |
| 670 | ψ Drac. austr. | 4.7 | 17 43 31.109 | −1.0745 | + 28 | +72 11 33.96 | −1.707 | −267 |
| 669 | [*G* Scorpii] | 3.1 | 17 43 47.943 | +4.0818 | + 42 | −37 0 56.58 | −1.390 | + 26 |
| 671 | ξ Draconis | 3.6 | 17 51 59.379 | +1.0369 | + 120 | +56 53 10.80 | −0.624 | + 76 |
| 672 | ϑ Herculis | 3.8 | 17 53 12.028 | +2.0567 | + 4 | +37 15 42.40 | −0.590 | + 5 |
| 675 | 35 Draconis | 5.1 | 17 53 25.890 | −2.6905 | + 118 | +76 58 30.71 | −0.333 | +241 |
| 673 | ν Ophiuchi | 3.4 | 17 54 7.581 | +3.3017 | − 7 | − 9 45 48.16 | −0.631 | −118 |
| 674 | [ξ Herculis] | 3.7 | 17 54 18.366 | +2.3308 | + 66 | +29 15 24.52 | −0.524 | − 26 |
| 676 | γ Draconis | 2.3 | 17 54 32.349 | +1.3921 | − 9 | +51 29 56.28 | −0.500 | − 22 |
| 677 | 67 Ophiuchi | 4.0 | 17 56 11.237 | +3.0040 | 0 | + 2 56 6.51 | −0.347 | − 13 |
| 678 | [Apodis 66 G.] | 6.0 | 17 58 48.465 | +8.3861 | − 50 | −75 53 41.69 | −0.374 | −270 |
| 679 | γ Sagittarii | 3.0 | 18 0 5.387 | +3.8527 | − 48 | −30 25 33.54 | −0.186 | −194 |
| 680 | 72 Ophiuchi | 3.6 | 18 3 7.795 | +2.8436 | − 42 | + 9 33 1.81 | +0.352 | + 79 |
| 681 | o Herculis | 3.8 | 18 4 4.231 | +2.3397 | + 2 | +28 44 58.60 | +0.356 | 0 |
| 682 | μ Sagittarii | 3.9 | 18 8 26.431 | +3.5872 | − 3 | −21 4 58.55 | +0.735 | − 3 |
| 683 | [η Sagittarii] | 3.1 | 18 11 36.257 | +4.0589 | − 118 | −36 47 21.01 | +0.852 | −163 |
| 684 | [Gr. 2533] | 5.6 | 18 12 52.651 | +1.8651 | − 6 | +42 7 42.42 | +1.119 | − 7 |
| 685 | [36 Draconis] | 5.0 | 18 13 23.061 | +0.3454 | + 533 | +64 22 1.18 | +1.199 | + 29 |
| 686 | [ξ Pavonis] | 4.2 | 18 15 1.459 | +5.5296 | − 26 | −61 32 6.42 | +1.330 | + 17 |
| 687 | [δ Sagittarii] | 2.7 | 18 15 17.773 | +3.8410 | + 27 | −29 52 0.07 | +1.305 | − 32 |
| 688 | η Serpentis | 3.2 | 18 16 42.262 | +3.1033 | − 373 | − 2 55 21.60 | +0.762 | −698 |
| 689 | ε Sagittarii | 1.9 | 18 18 15.871 | +3.9826 | − 30 | −34 25 38.70 | +1.469 | −127 |
| 690 | 109 Herculis | 3.9 | 18 19 54.309 | +2.5559 | + 140 | +21 43 42.78 | +1.482 | −257 |
| 691 | α Telescopii | 3.7 | 18 20 22.459 | +4.4497 | − 21 | −46 1 5.54 | +1.732 | − 47 |
| 693 | [φ Draconis] | 4.3 | 18 22 2.092 | −0.8570 | − 17 | +71 17 26.19 | +1.957 | + 33 |
| 692 | [λ Sagittarii] | 2.8 | 18 22 28.676 | +3.7024 | − 37 | −25 28 17.93 | +1.775 | −188 |
| 694 | *b* Draconis | 5.1 | 18 22 36.662 | +0.8766 | − 45 | +58 44 55.96 | +2.033 | + 59 |
| 695 | χ Draconis | 3.6 | 18 22 39.747 | −1.0793 | +1164 | +72 41 40.04 | +1.613 | −366 |
| 696 | [2 H. Scuti] | 4.8 | 18 24 7.488 | +3.4190 | − 3 | −14 37 23.62 | +2.109 | + 2 |
| 697 | [ϑ Coron. austr.] | 4.7 | 18 27 8.838 | +4.2848 | + 14 | −42 22 38.70 | +2.345 | − 24 |
| 698 | ζ Pavonis | 4.0 | 18 32 38.449 | +7.0250 | − 26 | −71 30 20.76 | +2.668 | −178 |
| 699 | α Lyrae | 1 | 18 33 55.495 | +2.0312 | + 176 | +38 42 1.03 | +3.237 | +281 |
| 700 | [Gr. 2655] | 6.1 | 18 34 3.255 | −2.8794 | − 10 | +77 28 41.59 | +2.965 | − 3 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0ˢ.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0″.001 |
|---|---|---|---|---|---|---|---|---|
| 701 | [Gr. 2640] | 6.2 | 18ʰ 35ᵐ 56ˢ.540 | +0ˢ.1901 | + 19 | +65° 24′ 32″.23 | +3″.215 | + 84 |
| 702 | [5 H. Scuti] | 5.1 | 18 38 40.441 | +3.2675 | + 13 | — 8 21 49.77 | +3.376 | + 9 |
| 703 | 110 Herculis | 4.1 | 18 41 49.873 | +2.5810 | — 13 | +20 27 37.76 | +3.298 | —340 |
| 704 | λ Pavonis | 4.3 | 18 43 58.383 | +5.5678 | — 26 | —62 17 26.01 | +3.795 | — 27 |
| 705 | β Lyrae | (3.3) | 18 46 47.635 | +2.2146 | + 3 | +33 15 31.80 | +4.063 | — 2 |
| 706 | σ Sagittarii | 2.1 | 18 49 44.829 | +3.7210 | + 4 | —26 24 29.07 | +4.254 | — 63 |
| 707 | o Draconis | 4.6 | 18 49 53.338 | +0.8873 | +105 | +59 16 45.49 | +4.354 | + 24 |
| 708 | λ Telescopii | 5.1 | 18 51 20.674 | +4.8055 | + 3 | —53 3 20.96 | +4.468 | + 14 |
| 709 | ϑ Serpent. pr. | 4.5 | 18 51 47.707 | +2.9824 | + 29 | + 4 5 13.35 | +4.520 | + 28 |
| 710 | [ξ Sagittarii] | 3.6 | 18 52 25.257 | +3.5798 | + 18 | —21 13 27.84 | +4.529 | — 16 |
| 711 | *R* Lyrae | (4.5) | 18 52 37.629 | +1.8262 | + 28 | +43 49 42.03 | +4.639 | + 76 |
| 714 | [υ Draconis] | 5.0 | 18 55 29.505 | —0.7235 | +104 | +71 10 42.17 | +4.847 | + 40 |
| 712 | [ε Aquilae] | 4.0 | 18 55 34.965 | +2.7220 | — 42 | +14 56 48.29 | +4.734 | — 80 |
| 713 | γ Lyrae | 3.2 | 18 55 36.841 | +2.2436 | — 4 | +32 34 0.88 | +4.815 | — 2 |
| 715 | [ζ Sagittarii] | 2.7 | 18 56 56.984 | +3.8186 | — 21 | —30 0 28.94 | +4.932 | + 2 |
| 716 | ζ Aquilae | 3.0 | 19 1 19.159 | +2.7569 | — 7 | +13 43 49.70 | +5.199 | —101 |
| 717 | λ Aquilae | 3.2 | 19 1 31.563 | +3.1840 | — 16 | — 5 1 0.13 | +5.231 | — 87 |
| 718 | α Coron. austr. | 4.1 | 19 3 25.089 | +4.0845 | + 59 | —38 2 38.08 | +5.367 | —110 |
| 719 | [ι Lyrae] | 5.2 | 19 4 7.543 | +2.1405 | — 3 | +35 57 36.30 | +5.533 | — 3 |
| 720 | π Sagittarii | 2.9 | 19 4 28.297 | +3.5691 | — 5 | —21 9 57.07 | +5.530 | — 35 |
| 721 | [Pavonis 60 G.] | 5.7 | 19 8 15.473 | +6.0548 | — 7 | —66 48 56.31 | +5.862 | — 21 |
| 722 | [*d* Sagittarii] | 5.2 | 19 12 25.713 | +3.5115 | — 12 | —19 6 43.10 | +6.221 | — 9 |
| 723 | δ Draconis | 3.0 | 19 12 32.249 | +0.0224 | +167 | +67 30 17.82 | +6.327 | + 87 |
| 724 | ϑ Lyrae | 4.3 | 19 13 16.713 | +2.0815 | — 7 | +37 58 28.83 | +6.300 | — 1 |
| 725 | ω Aquilae | 5.4 | 19 13 38.336 | +2.8158 | — 3 | +11 26 3.30 | +6.344 | + 13 |
| 726 | ϰ Cygni | 3.8 | 19 15 2.792 | +1.3877 | + 69 | +53 12 13.90 | +6.567 | +119 |
| 727 | [υ Sagittarii] | 4.5 | 19 16 37.866 | +3.4375 | 0 | —16 7 21.78 | +6.576 | — 2 |
| 729 | τ Draconis | 4.5 | 19 17 16.248 | —1.1345 | —324 | +73 11 25.96 | +6.742 | +110 |
| 728 | α Sagittarii | 4.0 | 19 17 43.287 | +4.1615 | + 18 | —40 47 2.77 | +6.550 | —118 |
| 730 | δ Aquilae | 3.3 | 19 21 0.671 | +3.0250 | +168 | + 2 56 11.89 | +7.020 | + 81 |
| 731 | [Sagittar. 186 G.] | 5.8 | 19 21 19.085 | +3.7944 | + 7 | —29 55 11.76 | +6.917 | — 47 |
| 734 | [Gr. 2900] | 6.4 | 19 27 5.919 | —3.5655 | + 95 | +79 25 30.62 | +7.401 | — 35 |
| 732 | β Cygni | 3.0 | 19 27 7.911 | +2.4189 | — 2 | +27 46 19.79 | +7.431 | — 8 |
| 733 | ι Cygni | 3.9 | 19 27 27.749 | +1.5134 | + 23 | +51 32 23.01 | +7.590 | +125 |
| 735 | [ι Telescopii] | 5.1 | 19 28 36.927 | +4.4572 | — 42 | —48 17 30.36 | +7.519 | — 40 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von $0^s.0001$ | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von $0''.001$ |
|---|---|---|---|---|---|---|---|---|
| | | | h m s | s | | ° ′ ″ | ″ | |
| 736 | h Sagittarii | 4.6 | 19 31 17.552 | +3.6536 | + 46 | −25 4 50.72 | + 7.754 | − 22 |
| 737 | [κ Aquilae] | 5.0 | 19 32 6.257 | +3.2288 | + 3 | − 7 13 33.60 | + 7.841 | 0 |
| 738 | ϑ Cygni | 4.5 | 19 34 3.284 | +1.6086 | − 28 | +50 0 52.26 | + 8.245 | + 247 |
| 739 | [ν Telescopii] | 5.5 | 19 40 45.372 | +4.9136 | + 86 | −56 34 38.04 | + 8.395 | − 137 |
| 740 | [15 Cygni] | 5.2 | 19 41 3.997 | +2.1631 | + 59 | +37 8 19.90 | + 8.592 | + 35 |
| 741 | γ Aquilae | 2.7 | 19 42 1.709 | +2.8521 | + 9 | +10 23 44.75 | + 8.632 | 0 |
| 742 | δ Cygni | 2.8 | 19 42 11.612 | +1.8756 | + 51 | +44 54 46.93 | + 8.685 | + 39 |
| 743 | δ Sagittae | 3.8 | 19 43 25.155 | +2.6749 | + 4 | +18 18 50.74 | + 8.755 | + 13 |
| 744 | [51 Aquilae] | 5.8 | 19 45 53.050 | +3.3028 | − 21 | −10 59 23.69 | + 8.977 | + 41 |
| 745 | α Aquilae | 1 | 19 46 26.455 | +2.9271 | + 360 | + 8 37 57.52 | + 9.361 | + 382 |
| 746 | [η Aquilae] | (4.0) | 19 47 56.383 | +3.0570 | + 6 | + 0 46 35.57 | + 9.087 | − 9 |
| 747 | ε Draconis | 3.8 | 19 48 28.795 | −0.1872 | + 156 | +70 2 28.46 | + 9.168 | + 29 |
| 748 | ε Pavonis | 3.8 | 19 50 18.861 | +6.9974 | + 146 | −73 8 47.20 | + 9.149 | − 132 |
| 749 | β Aquilae | 3.7 | 19 50 56.494 | +2.9468 | + 24 | + 6 11 1.82 | + 8.849 | − 480 |
| 750 | ψ Cygni | 5.0 | 19 53 19.752 | +1.5517 | − 43 | +52 12 8.20 | + 9.483 | − 31 |
| 751 | ϑ¹ Sagittarii | 4.3 | 19 53 56.714 | +3.9098 | − 12 | −35 31 3.55 | + 9.525 | − 36 |
| 752 | γ Sagittae | 3.6 | 19 54 47.933 | +2.6675 | + 43 | +19 14 59.35 | + 9.651 | + 24 |
| 753 | [c Sagittarii] | 4.6 | 19 57 11.244 | +3.6932 | + 21 | −27 57 28.60 | + 9.827 | + 18 |
| 754 | δ Pavonis | 3.5 | 20 0 0.262 | +5.9187 | +1958 | −66 24 35.68 | + 8.858 | −1166 |
| 755 | [ξ Telescopii] | 5.2 | 20 0 34.216 | +4.6094 | − 44 | −53 8 10.83 | +10.064 | − 2 |
| 756 | ϑ Aquilae | 3.1 | 20 6 42.799 | +3.0963 | + 22 | − 1 5 9.94 | +10.533 | + 5 |
| 757 | o¹ Cygni sq. | 4.3 | 20 10 49.745 | +1.8891 | + 4 | +46 28 15.34 | +10.833 | + 1 |
| 758 | [33 Cygni] | 4.3 | 20 11 19.778 | +1.3965 | + 74 | +56 17 42.55 | +10.954 | + 85 |
| 759 | κ Cephei | 4.3 | 20 11 54.248 | −1.9597 | + 12 | +77 26 37.67 | +10.938 | + 27 |
| 760 | 24 Vulpecul. | 5.7 | 20 12 58.582 | +2.5668 | + 12 | +24 23 46.92 | +10.970 | − 19 |
| 761 | α² Capricorni | 3.6 | 20 13 7.071 | +3.3308 | + 40 | −12 49 16.63 | +11.011 | + 11 |
| 762 | [β Capricorni] | 3.1 | 20 16 0.727 | +3.3730 | + 23 | −15 3 47.00 | +11.216 | + 6 |
| 763 | [κ¹ Sagittarii] | 5.8 | 20 16 25.165 | +4.0843 | + 37 | −42 19 50.71 | +11.144 | − 96 |
| 764 | α Pavonis | 1.9 | 20 18 36.807 | +4.7678 | + 11 | −57 1 15.24 | +11.313 | − 85 |
| 765 | γ Cygni | 2.3 | 20 19 2.024 | +2.1526 | + 4 | +39 58 16.80 | +11.429 | 0 |
| 766 | [ρ Capricorni] | 5.0 | 20 23 47.142 | +3.4250 | − 14 | −18 6 30.50 | +11.752 | − 16 |
| 767 | ϑ Cephei | 4.1 | 20 28 5.418 | +1.0121 | + 62 | +62 41 40.97 | +12.056 | − 14 |
| 768 | ε Delphini | 3.9 | 20 28 57.667 | +2.8663 | + 5 | +11 0 0.63 | +12.106 | − 25 |
| 769 | α Jndi | 3.0 | 20 31 18.651 | +4.2320 | + 33 | −47 36 8.93 | +12.354 | + 60 |
| 770 | 73 Draconis | 5.3 | 20 32 41.639 | −0.7530 | + 15 | +74 38 59.08 | +12.378 | − 12 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0s.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0".001 |
|---|---|---|---|---|---|---|---|---|
| | | | h m s | s | | ° ′ ″ | ″ | |
| 771 | β Delphini | 3.5 | 20 33 22.534 | +2.8131 | + 74 | +14 17 5.85 | +12.400 | − 36 |
| 772 | [κ Delphini] | 5.1 | 20 34 48.408 | +2.9141 | + 212 | + 9 46 19.76 | +12.552 | + 18 |
| 773 | υ Capricorni | 5.5 | 20 34 59.108 | +3.4186 | − 17 | −18 27 9.44 | +12.530 | − 16 |
| 774 | α Delphini | 3.7 | 20 35 30.255 | +2.7866 | + 45 | +15 35 50.98 | +12.575 | − 6 |
| 775 | β Pavonis | 3.3 | 20 36 57.044 | +5.4487 | − 71 | −66 31 25.63 | +12.682 | + 2 |
| 776 | [η Jndi] | 4.8 | 20 37 30.517 | +4.4219 | + 157 | −52 14 22.54 | +12.644 | − 73 |
| 777 | α Cygni | 1.3 | 20 38 23.848 | +2.0446 | + 4 | +44 57 42.65 | +12.777 | − 1 |
| 778 | [δ Delphini] | 4.2 | 20 39 18.235 | +2.8008 | − 14 | +14 45 16.95 | +12.791 | − 48 |
| 779 | [ψ Capricorni] | 4.2 | 20 40 49.699 | +3.5570 | − 44 | −25 35 28.95 | +12.784 | − 157 |
| 780 | ε Cygni | 2.4 | 20 42 36.583 | +2.4270 | + 290 | +33 38 11.05 | +13.386 | + 327 |
| 781 | ε Aquarii | 3.6 | 20 42 51.555 | +3.2497 | + 17 | − 9 49 19.58 | +13.048 | − 28 |
| 782 | [6 H. Cephei] | 4.5 | 20 43 8.607 | +1.4901 | − 87 | +57 15 36.04 | +12.860 | − 234 |
| 783 | η Cephei | 3.5 | 20 43 28.879 | +1.2253 | + 134 | +61 29 34.13 | +13.935 | + 818 |
| 784 | λ Cygni | 4.6 | 20 43 56.476 | +2.3357 | + 5 | +36 9 47.58 | +13.147 | 0 |
| 785 | β Jndi | 3.6 | 20 47 51.647 | +4.7127 | 0 | −58 47 25.89 | +13.377 | − 27 |
| 786 | 32 Vulpeculae | 5.3 | 20 50 45.988 | +2.5561 | − 4 | +27 43 7.11 | +13.594 | + 1 |
| 788 | ν Cygni | 3.9 | 20 53 51.273 | +2.2354 | + 9 | +40 49 26.42 | +13.772 | − 17 |
| 787 | [α Octantis] | 5.5 | 20 53 58.045 | +7.3951 | − 20 | −77 21 50.45 | +13.442 | − 355 |
| 789 | [11 Aquarii] | 6.4 | 20 55 52.694 | +3.1603 | + 23 | − 5 4 28.58 | +13.785 | − 133 |
| 790 | ζ Microscopii | 5.4 | 20 57 16.916 | +3.8426 | − 36 | −38 58 46.55 | +13.884 | − 122 |
| 792 | [ξ Cygni] | 3.9 | 21 1 41.591 | +2.1814 | + 12 | +43 34 20.30 | +14.276 | − 3 |
| 791 | [A Capricorni] | 4.6 | 21 1 55.447 | +3.5137 | − 30 | −25 21 43.89 | +14.246 | − 47 |
| 793 | 61 Cygni pr. | 5.4 | 21 2 54.400 | +2.6859 | +3504 | +38 18 40.59 | +17.604 | +3250 |
| 794 | ν Aquarii | 4.4 | 21 4 44.864 | +3.2709 | + 62 | −11 43 57.21 | +14.456 | − 9 |
| 795 | Br. 2777 | 6.0 | 21 7 17.875 | −1.1370 | + 74 | +77 45 56.32 | +14.655 | + 36 |
| 797 | ζ Cygni | 3.1 | 21 9 8.862 | +2.5520 | − 1 | +29 51 41.01 | +14.670 | − 58 |
| 796 | [Jndi 23 G.] | 5.9 | 21 9 24.692 | +4.3001 | − 19 | −53 37 55.85 | +14.699 | − 46 |
| 798 | [Gr. 3415] | 5.8 | 21 9 32.322 | +1.5284 | − 6 | +59 37 12.94 | +14.750 | − 2 |
| 799 | [τ Cygni] | 3.8 | 21 11 14.257 | +2.3934 | + 137 | +37 39 54.26 | +15.288 | + 435 |
| 800 | α Equulei | 3.9 | 21 11 22.523 | +2.9997 | + 38 | + 4 52 45.69 | +14.773 | − 87 |
| 801 | [4 Pisc. austr.] | 4.8 | 21 12 32.647 | +3.6452 | + 35 | −32 32 41.85 | +14.902 | − 26 |
| 802 | [θ¹ Microscop.] | 4.9 | 21 15 4.349 | +3.8503 | + 70 | −41 11 10.08 | +15.089 | + 14 |
| 803 | α Cephei | 2.5 | 21 16 27.363 | +1.4341 | + 212 | +62 12 29.58 | +15.204 | + 49 |
| 804 | 1 Pegasi | 4.2 | 21 17 58.208 | +2.7738 | + 74 | +19 25 23.55 | +15.302 | + 61 |
| 805 | γ Pavonis | 4.2 | 21 19 5.800 | +5.0035 | + 133 | −65 46 10.45 | +16.093 | + 788 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0ˢ.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0″.001 |
|---|---|---|---|---|---|---|---|---|
| | | | h m s | s | | ° ′ ″ | ″ | |
| 806 | ζ Capricorni | 3.8 | 21 21 35.293 | +3.4305 | − 1 | −22 47 50.48 | +15.468 | + 23 |
| 807 | [g Cygni] | 5.4 | 21 26 9.853 | +2.2122 | + 49 | +46 8 51.83 | +15.800 | + 103 |
| 808 | β Aquarii | 2.9 | 21 26 52.479 | +3.1601 | + 11 | − 5 57 47.41 | +15.731 | − 5 |
| 809 | β Cephei | 3.1 | 21 27 30.986 | +0.7868 | + 20 | +70 10 11.57 | +15.777 | + 7 |
| 810 | ν Octantis | 3.7 | 21 31 36.859 | +6.8092 | + 130 | −77 47 9.42 | +15.733 | − 256 |
| 811 | 74 Cygni | 5.1 | 21 33 22.828 | +2.4024 | − 3 | +40 0 47.90 | +16.093 | + 12 |
| 812 | [γ Capricorni] | 3.6 | 21 35 9.716 | +3.3280 | + 131 | −17 3 53.03 | +16.158 | − 16 |
| 813 | [13 H. Cephei] | 6.1 | 21 36 11.935 | +1.8611 | + 7 | +57 5 10.57 | +16.230 | + 2 |
| 814 | [ι Pisc.austr.] | 4.4 | 21 39 38.897 | +3.5815 | + 18 | −33 25 56.19 | +16.314 | − 89 |
| 815 | ε Pegasi | 2.3 | 21 39 48.884 | +2.9464 | + 18 | + 9 27 59.36 | +16.411 | 0 |
| 816 | [κ Pegasi] | 4.1 | 21 40 36.843 | +2.7151 | + 25 | +25 14 7.90 | +16.461 | + 10 |
| 817 | [11 Cephei] | 4.8 | 21 40 37.305 | +0.8907 | + 233 | +70 54 5.31 | +16.549 | + 97 |
| 818 | [λ Capricorni] | 5.5 | 21 41 44.756 | +3.2326 | + 20 | −11 46 36.46 | +16.504 | − 4 |
| 819 | δ Capricorni | 2.8 | 21 42 7.815 | +3.3149 | + 178 | −16 31 53.75 | +16.233 | − 294 |
| 820 | [ο Jndi] | 5.6 | 21 43 16.345 | +5.1316 | − 87 | −70 2 38.93 | +16.562 | − 21 |
| 821 | π² Cygni | 4.3 | 21 43 30.242 | +2.2141 | + 8 | +48 53 50.44 | +16.591 | − 4 |
| 822 | γ Gruis | 3.0 | 21 48 32.573 | +3.6424 | + 77 | −37 47 2.01 | +16.819 | − 18 |
| 823 | 16 Pegasi | 5.2 | 21 49 0.703 | +2.7281 | + 4 | +25 30 21.60 | +16.861 | + 1 |
| 824 | [δ Jndi] | 4.6 | 21 51 52.033 | +4.1050 | + 43 | −55 24 58.70 | +16.965 | − 29 |
| 825 | [ε Jndi] | 4.9 | 21 56 33.594 | +4.6155 | +4812 | −57 9 7.78 | +14.622 | −2586 |
| 826 | [20 Pegasi] | 5.8 | 21 56 45.174 | +2.9219 | + 36 | +12 41 35.39 | +17.162 | − 54 |
| 827 | α Aquarii | 2.9 | 22 1 12.798 | +3.0822 | + 10 | − 0 45 9.39 | +17.406 | − 7 |
| 828 | ι Aquarii | 4.2 | 22 1 37.926 | +3.2432 | + 24 | −14 18 6.54 | +17.380 | − 51 |
| 830 | 20 Cephei | 5.7 | 22 2 18.155 | +1.8215 | + 22 | +62 21 4.24 | +17.520 | + 60 |
| 829 | α Gruis | 1.8 | 22 2 37.732 | +3.7964 | + 119 | −47 23 33.09 | +17.303 | − 171 |
| 831 | [ι Pegasi] | 3.9 | 22 2 52.003 | +2.7908 | + 218 | +24 54 36.06 | +17.506 | + 22 |
| 832 | [μ Pisc.austr.] | 4.6 | 22 3 11.578 | +3.5069 | + 41 | −33 25 23.51 | +17.457 | − 41 |
| 833 | [27 Pegasi] | 5.8 | 22 5 16.952 | +2.6560 | − 42 | +32 44 13.91 | +17.522 | − 65 |
| 834 | ϑ Pegasi | 3.6 | 22 5 42.630 | +3.0265 | + 184 | + 5 45 34.59 | +17.635 | + 31 |
| 835 | π Pegasi | 4.3 | 22 6 1.996 | +2.6617 | − 9 | +32 44 28.13 | +17.599 | − 19 |
| 836 | ζ Cephei | 3.4 | 22 7 45.874 | +2.0772 | + 14 | +57 45 44.07 | +17.696 | + 6 |
| 837 | 24 Cephei | 4.8 | 22 8 5.945 | +1.1597 | + 54 | +71 54 9.50 | +17.711 | + 8 |
| 838 | [λ Pisc.austr.] | 5.4 | 22 9 16.258 | +3.4072 | + 16 | −28 12 30.32 | +17.751 | − 1 |
| 839 | [ε Octantis] | 5.3 | 22 10 5.849 | +6.9285 | + 138 | −80 52 59.88 | +17.745 | − 40 |
| 840 | ϑ Aquarii | 4.2 | 22 12 8.307 | +3.1678 | + 76 | − 8 13 36.47 | +17.847 | − 19 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0s.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0".001 |
|---|---|---|---|---|---|---|---|---|
| | | | h m s | s | | ° ' " | " | |
| 841 | α Tucanae | 2.8 | 22 12 24.794 | +4.1402 | — 98 | −60 42 13.05 | +17.828 | — 49 |
| 842 | γ Aquarii | 3.7 | 22 17 3.594 | +3.0995 | + 83 | — 1 50 10.30 | +18.064 | + 7 |
| 843 | [31 Pegasi] | 4.9 | 22 17 8.196 | +2.9518 | — 1 | +11 45 23.15 | +18.069 | + 9 |
| 844 | 3 Lacertae | 4.5 | 22 20 3.466 | +2.3542 | — 15 | +51 46 58.15 | +17.979 | —191 |
| 845 | [ν Gruis] | 5.6 | 22 23 26.410 | +3.5268 | + 24 | −39 34 56.70 | +18.131 | —162 |
| 846 | [δ¹ Gruis] | 4.0 | 22 23 57.242 | +3.5985 | + 17 | −43 57 2.19 | +18.303 | — 8 |
| 847 | [δ Cephei] | (4.1) | 22 25 51.835 | +2.2216 | + 17 | +57 57 33.76 | +18.381 | + 2 |
| 848 | 7 Lacertae | 3.8 | 22 27 37.344 | +2.4664 | + 147 | +49 49 28.68 | +18.456 | + 16 |
| 849 | [υ Aquarii] | 5.5 | 22 29 49.662 | +3.2864 | + 155 | −21 9 51.92 | +18.370 | —144 |
| 850 | η Aquarii | 3.9 | 22 30 47.010 | +3.0835 | + 59 | — 0 34 35.61 | +18.491 | — 55 |
| 851 | [31 Cephei] | 5.2 | 22 33 34.207 | +1.4827 | + 381 | +73 10 51.58 | +18.660 | + 23 |
| 852 | 10 Lacertae | 4.9 | 22 35 15.940 | +2.6877 | + 4 | +38 35 12.36 | +18.685 | — 6 |
| 853 | [30 Cephei] | 5.3 | 22 35 29.478 | +2.1223 | + 1 | +63 7 17.75 | +18.677 | — 22 |
| 854 | [ε Pisc.austr.] | 4.0 | 22 35 44.113 | +3.3239 | + 12 | −27 30 28.92 | +18.709 | + 2 |
| 855 | ζ Pegasi | 3.3 | 22 37 1.368 | +2.9913 | + 53 | +10 21 59.23 | +18.734 | — 13 |
| 856 | β Gruis | 2.0 | 22 37 21.393 | +3.5962 | + 118 | −47 21 1.50 | +18.731 | — 25 |
| 857 | η Pegasi | 2.9 | 22 38 49.706 | +2.8088 | + 12 | +29 45 19.56 | +18.769 | — 33 |
| 858 | [13 Lacertae] | 5.4 | 22 40 7.178 | +2.6702 | — 6 | +41 21 6.86 | +18.846 | + 5 |
| 859 | λ Pegasi | 3.9 | 22 42 14.568 | +2.8869 | + 41 | +23 5 49.24 | +18.893 | — 10 |
| 860 | ε Gruis | 3.5 | 22 43 10.991 | +3.6405 | + 97 | −51 47 6.58 | +18.857 | — 73 |
| 861 | [τ Aquarii] | 4.0 | 22 44 52.863 | +3.1791 | — 12 | −14 3 45.32 | +18.946 | — 33 |
| 862 | [μ Pegasi] | 3.6 | 22 45 42.371 | +2.8928 | + 109 | +24 7 52.97 | +18.961 | — 41 |
| 863 | ι Cephei | 3.5 | 22 46 30.512 | +2.1268 | — 114 | +65 43 55.63 | +18.901 | —123 |
| 864 | λ Aquarii | 3.8 | 22 47 58.334 | +3.1315 | + 5 | — 8 3 12.38 | +19.102 | + 38 |
| 865 | ρ Indi | 6.3 | 22 48 28.809 | +4.2241 | — 102 | −70 32 57.70 | +19.140 | + 62 |
| 866 | δ Aquarii | 3.2 | 22 49 55.696 | +3.1868 | — 33 | −16 17 39.67 | +19.097 | — 19 |
| 867 | α Pisc. austr. | 1.2 | 22 52 44.089 | +3.3213 | + 247 | −30 5 38.79 | +19.030 | —159 |
| 868 | [ζ Gruis] | 4.0 | 22 55 37.837 | +3.5602 | — 80 | −53 13 53.88 | +19.245 | — 16 |
| 869 | ο Androm. | 3.5 | 22 57 49.407 | +2.7543 | + 25 | +41 50 50.61 | +19.300 | — 13 |
| 870 | β Pegasi | 2.4 | 22 59 27.470 | +2.9046 | + 145 | +27 35 59.28 | +19.488 | +137 |
| 871 | α Pegasi | 2.4 | 23 0 19.586 | +2.9862 | + 41 | +14 43 34.20 | +19.329 | — 41 |
| 872 | θ Gruis | 4.2 | 23 1 52.121 | +3.3912 | — 52 | −44 0 4.83 | +19.367 | — 38 |
| 873 | $c^2$ Aquarii | 3.7 | 23 4 42.169 | +3.2026 | + 32 | −21 39 20.45 | +19.501 | + 36 |
| 874 | π Cephei | 4.5 | 23 5 3.824 | +1.8990 | + 28 | +74 54 22.47 | +19.447 | — 25 |
| 875 | Br. 3077 | 5.8 | 23 8 59.553 | +2.8764 | +2525 | +56 40 36.41 | +19.847 | +295 |

| Nr. | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0ˢ.0001 | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbew. in Einh. von 0″.001 |
|---|---|---|---|---|---|---|---|---|
| | | | h m s | s | | ° ′ ″ | ″ | |
| 876 | [Tucanae 25 G.] | 5.9 | 23 11 36.999 | +3.6333 | +232 | −62 29 11.83 | +19.548 | − 53 |
| 877 | γ Tucanae | 3.9 | 23 12 14.428 | +3.5217 | − 59 | −58 43 25.68 | +19.694 | + 82 |
| 878 | [γ Piscium] | 3.7 | 23 12 33.075 | +3.1094 | +503 | + 2 47 44.81 | +19.636 | + 18 |
| 879 | γ Sculptoris | 4.4 | 23 14 1.235 | +3.2466 | + 10 | −33 1 1.34 | +19.576 | − 68 |
| 880 | τ Pegasi | 4.5 | 23 16 13.803 | +2.9656 | + 21 | +23 15 10.72 | +19.668 | − 13 |
| 882 | 4 Cassiopejae | 5.5 | 23 20 52.737 | +2.6510 | + 17 | +61 47 38.52 | +19.744 | − 10 |
| 881 | [υ Pegasi] | 4.4 | 23 20 56.130 | +2.9905 | +138 | +22 54 50.28 | +19.791 | + 35 |
| 883 | [ο Gruis] | 5.7 | 23 21 37.908 | +3.3700 | − 4 | −53 12 51.89 | +19.884 | +119 |
| 884 | κ Piscium | 5.1 | 23 22 22.200 | +3.0752 | + 56 | + 0 46 5.63 | +19.683 | − 93 |
| 885 | 70 Pegasi | 4.7 | 23 24 39.146 | +3.0317 | + 38 | +12 16 9.73 | +19.836 | + 28 |
| 886 | [β Sculptoris] | 4.4 | 23 28 12.077 | +3.2251 | + 65 | −38 18 38.21 | +19.867 | + 14 |
| 887 | [72 Pegasi] | 5.2 | 23 29 32.110 | +2.9708 | + 40 | +30 50 2.37 | +19.857 | − 12 |
| 888 | [Aquarii 248 G.] | 6.7 | 23 30 56.637 | +3.0957 | − 5 | − 7 57 25.54 | +19.908 | + 23 |
| 889 | [Phoenicis 11 G.] | 4.6 | 23 33 3.693 | +3.2395 | + 47 | −45 59 6.43 | +19.870 | − 37 |
| 890 | [λ Androm.] | 3.8 | 23 33 12.231 | +2.9268 | +156 | +45 58 32.96 | +19.486 | −423 |
| 891 | ι Androm. | 4.1 | 23 33 46.051 | +2.9340 | + 27 | +42 46 30.74 | +19.910 | − 5 |
| 892 | ι Piscium | 4.1 | 23 35 22.314 | +3.0844 | +247 | + 5 8 37.50 | +19.490 | −440 |
| 893 | γ Cephei | 3.3 | 23 35 41.163 | +2.4347 | −182 | +77 8 8.14 | +20.090 | +157 |
| 894 | ω² Aquarii | 4.5 | 23 38 6.479 | +3.1132 | + 65 | −15 2 13.51 | +19.892 | − 63 |
| 895 | 41 H. Cephei | 5.2 | 23 43 38.841 | +2.8469 | + 23 | +67 18 44.16 | +19.996 | + 1 |
| 896 | Lac. δ Sculpt. | 4.4 | 23 44 17.504 | +3.1296 | + 71 | −28 37 21.14 | +19.894 | −105 |
| 897 | [Aquarii 268 G.] | 6.3 | 23 45 39.186 | +3.0966 | + 86 | −10 28 15.50 | +20.093 | + 86 |
| 898 | φ Pegasi | 5.4 | 23 47 57.497 | +3.0481 | − 8 | +18 37 33.37 | +19.979 | − 39 |
| 899 | [ρ Cassiopejae] | 4.8 | 23 49 55.853 | +2.9814 | − 7 | +57 0 15.16 | +20.030 | + 4 |
| 900 | [27 Piscium] | 5.1 | 23 54 6.996 | +3.0713 | − 37 | − 4 2 59.19 | +19.971 | − 68 |
| 901 | *[π Phoenicis] | 5.2 | 23 54 19.202 | +3.1198 | + 30 | −53 14 35.30 | +20.085 | + 46 |
| 902 | ω Piscium | 3.9 | 23 54 44.407 | +3.0791 | +100 | + 6 22 14.01 | +19.931 | −109 |
| 903 | ε Tucanae | 4.5 | 23 55 17.843 | +3.1407 | + 64 | −66 4 20.25 | +20.009 | − 33 |
| 904 | [ϑ Octantis] | 5.0 | 23 57 1.961 | +3.1288 | −221 | −77 33 25.45 | +19.874 | −171 |
| 905 | [2 Ceti] | 4.5 | 23 59 10.879 | +3.0752 | + 12 | −17 49 53.13 | +20.042 | − 4 |

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden.

## Nördliche Polsterne.

| | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbewegung 0s. | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbewegung 0″. |
|---|---|---|---|---|---|---|---|---|
| | | | h m s | s | | ° ′ ″ | ″ | |
| *Na* | 43 H. Cephei | 4.3 | 0 56 23.719 | + 7.5584 | +0738 | +85 46 48.56 | +19.442 | −001 |
| *Nb* | α Ursae min. | 2.0 | 1 27 23.378 | +27.5866 | +1399 | +88 49 52.07 | +18.608 | +002 |
| *Nc* | Gr. 750 | 6.8 | 4 8 17.224 | +17.5131 | +0157 | +85 19 13.62 | + 9.421 | +033 |
| *Nd* | 51 H. Cephei | 5.2 | 6 59 8.834 | +29.3533 | −0501 | +87 11 26.11 | − 5.153 | −036 |
| *Ne* | 1 H. Dracon. | 4.3 | 9 24 28.841 | + 8.8312 | −0062 | +81 43 15.43 | −15.626 | −020 |
| *Nf* | [30 H. Camel.] | 5.2 | 10 20 19.162 | + 7.6198 | −0469 | +83 0 43.71 | −18.149 | +031 |
| *Ng* | ε Ursae min. | 4.2 | 16 55 3.088 | − 6.2688 | +0075 | +82 11 6.74 | − 5.599 | +006 |
| *Nh* | δ Ursae min. | 4.3 | 18 0 58.310 | −19.4984 | +0174 | +86 36 51.07 | + 0.142 | +057 |
| *Ni* | λ Ursae min. | 6.8 | 19 9 48.075 | −70.6302 | −0927 | +89 0 27.96 | + 6.021 | +009 |
| *Nk* | 76 Draconis | 6.0 | 20 49 5.473 | − 4.1323 | +0164 | +82 12 8.97 | +13.511 | +027 |

## Südliche Polsterne.

| | Name | Gr. | AR. 1911.0 | Jährl. Veränderung | Jährl. Eigenbewegung 0s. | Dekl. 1911.0 | Jährl. Veränderung | Jährl. Eigenbewegung 0″. |
|---|---|---|---|---|---|---|---|---|
| | | | h m s | s | | ° ′ ″ | ″ | |
| *Sa* | Octantis 4 G. | 6 | 1 42 25.37 | − 3.815 | +019 | −85 13 9.97 | +18.112 | +035 |
| *Sb* | [ξ Mensae] | 6.0 | 5 8 58.05 | − 6.954 | −004 | −82 35 26.47 | + 4.441 | +014 |
| *Sc* | ζ Octantis | 6−5 | 9 9 47.39 | − 8.032 | −093 | −85 18 29.10 | −14.720 | +047 |
| *Sd* | ι Octantis | 6−5 | 12 45 31.64 | + 5.925 | +041 | −84 38 24.71 | −19.627 | +025 |
| *Se* | Octantis 20 G. | 7 | 14 43 35.41 | +25.551 | −181 | −87 47 19.38 | −15.218 | −066 |
| *Sf* | Octantis 26 G. | 6−7 | 16 27 30.68 | +21.597 | +005 | −86 12 11.35 | − 7.874 | −002 |
| *Sg* | χ Octantis | 6 | 18 2 37.75 | +35.746 | −096 | −87 39 53.40 | + 0.103 | −127 |
| *Sh* | σ Octantis | 6 | 19 18 5.24 | +97.696 | +115 | −89 14 11.14 | + 6.697 | −002 |
| *Si* | β Octantis | 4.1 | 22 37 1.24 | + 6.351 | −026 | −81 50 54.94 | +18.749 | +003 |
| *Sk* | τ Octantis | 6 | 23 15 7.25 | +10.435 | +022 | −87 58 16.48 | +19.678 | +015 |

## Obere Kulmination.

| 1911 | | 43 Hev. Cephei. $4^m.3$. AR. | | Dekl. | | α Ursae minoris. $2^m.0$. AR. | | Dekl. | | Gr. 750. $6^m.8$. AR. | | Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | $0^h\ 56^m$ | | $+85°\ 47'$ | | $1^h\ 26^m$ | | $+88°\ 50'$ | | $4^h\ 8^m$ | | $+85°\ 19'$ | |
| Jan. | 1 | 18.43 | 32 | 5.65 | 11 | 73.82 | 110 | 9.84 | 16 | 24.21 | 12 | 28.81 | 34 |
| | 2 | 18.11 | 32 | 5.76 | 8 | 72.72 | 115 | 10.00 | 14 | 24.09 | 14 | 29.15 | 32 |
| | 3 | 17.79 | 32 | 5.84 | 6 | 71.57 | 116 | 10.14 | 11 | 23.95 | 14 | 29.47 | 30 |
| | 4 | 17.47 | 32 | 5.90 | 4 | 70.41 | 114 | 10.25 | 9 | 23.81 | 16 | 29.77 | 28 |
| | 5 | 17.15 | 30 | 5.94 | 2 | 69.27 | 109 | 10.34 | 8 | 23.65 | 16 | 30.05 | 27 |
| | 6 | 16.85 | 29 | 5.96 | 2 | 68.18 | 104 | 10.42 | 7 | 23.49 | 15 | 30.32 | 25 |
| | 7 | 16.56 | 27 | 5.98 | 1 | 67.14 | 99 | 10.49 | 6 | 23.34 | 14 | 30.57 | 24 |
| | 8 | 16.29 | 26 | 5.99 | 2 | 66.15 | 95 | 10.55 | 7 | 23.20 | 13 | 30.81 | 23 |
| | 9 | 16.03 | 25 | 6.01 | 3 | 65.20 | 93 | 10.62 | 7 | 23.07 | 12 | 31.04 | 23 |
| | 10 | 15.78 | 26 | 6.04 | 4 | 64.27 | 93 | 10.69 | 9 | 22.95 | 12 | 31.27 | 25 |
| | 11 | 15.52 | 26 | 6.08 | 5 | 63.34 | 95 | 10.78 | 10 | 22.83 | 13 | 31.52 | 25 |
| | 12 | 15.26 | 28 | 6.13 | 5 | 62.39 | 100 | 10.88 | 10 | 22.70 | 13 | 31.77 | 27 |
| | 13 | 14.98 | 30 | 6.18 | 4 | 61.39 | 107 | 10.98 | 9 | 22.57 | 14 | 32.04 | 27 |
| | 14 | 14.68 | 31 | 6.22 | 4 | 60.32 | 113 | 11.07 | 9 | 22.43 | 16 | 32.31 | 28 |
| | 15 | 14.37 | 32 | 6.26 | 1 | 59.19 | 117 | 11.16 | 7 | 22.27 | 17 | 32.59 | 27 |
| | 16 | 14.05 | 33 | 6.27 | 1 | 58.02 | 119 | 11.23 | 4 | 22.10 | 20 | 32.86 | 26 |
| | 17 | 13.72 | 32 | 6.26 | 4 | 56.83 | 120 | 11.27 | 2 | 21.90 | 21 | 33.12 | 25 |
| | 18 | 13.40 | 31 | 6.22 | 6 | 55.63 | 117 | 11.29 | 1 | 21.69 | 21 | 33.37 | 22 |
| | 19 | 13.09 | 29 | 6.16 | 7 | 54.46 | 113 | 11.28 | 1 | 21.48 | 22 | 33.59 | 20 |
| | 20 | 12.80 | 29 | 6.09 | 8 | 53.33 | 107 | 11.27 | 3 | 21.26 | 21 | 33.79 | 17 |
| | 21 | 12.51 | 27 | 6.01 | 9 | 52.26 | 101 | 11.24 | 4 | 21.05 | 20 | 33.96 | 17 |
| | 22 | 12.24 | 26 | 5.92 | 8 | 51.25 | 96 | 11.20 | 4 | 20.85 | 19 | 34.13 | 16 |
| | 23 | 11.98 | 24 | 5.84 | 7 | 50.29 | 95 | 11.16 | 2 | 20.66 | 18 | 34.29 | 16 |
| | 24 | 11.74 | 25 | 5.77 | 6 | 49.34 | 96 | 11.14 | 1 | 20.48 | 18 | 34.45 | 17 |
| | 25 | 11.49 | 26 | 5.71 | 4 | 48.38 | 98 | 11.13 | 0 | 20.30 | 18 | 34.62 | 19 |
| | 26 | 11.23 | 27 | 5.67 | 5 | 47.40 | 103 | 11.13 | 0 | 20.12 | 19 | 34.81 | 20 |
| | 27 | 10.96 | 30 | 5.62 | 5 | 46.37 | 109 | 11.13 | 1 | 19.93 | 20 | 35.01 | 20 |
| | 28 | 10.66 | 30 | 5.57 | 7 | 45.28 | 113 | 11.12 | 2 | 19.73 | 22 | 35.21 | 21 |
| | 29 | 10.36 | 31 | 5.50 | 9 | 44.15 | 117 | 11.10 | 4 | 19.51 | 24 | 35.42 | 20 |
| | 30 | 10.05 | 31 | 5.41 | 11 | 42.98 | 118 | 11.06 | 5 | 19.27 | 24 | 35.62 | 17 |
| | 31 | 9.74 | 30 | 5.30 | 13 | 41.80 | 116 | 11.01 | 7 | 19.03 | 25 | 35.79 | 16 |
| Febr. | 1 | 9.44 | 29 | 5.17 | 14 | 40.64 | 111 | 10.94 | 10 | 18.78 | 26 | 35.95 | 15 |
| | 2 | 9.15 | 27 | 5.03 | 16 | 39.53 | 106 | 10.84 | 12 | 18.52 | 25 | 36.10 | 12 |
| | 3 | 8.88 | 25 | 4.87 | 16 | 38.47 | 99 | 10.72 | 11 | 18.27 | 24 | 36.22 | 9 |
| | 4 | 8.63 | 23 | 4.71 | 16 | 37.48 | 93 | 10.61 | 12 | 18.03 | 23 | 36.31 | 9 |
| | 5 | 8.40 | 23 | 4.55 | 15 | 36.55 | 89 | 10.49 | 11 | 17.80 | 22 | 36.40 | 9 |
| | 6 | 8.17 | 22 | 4.40 | 13 | 35.66 | 87 | 10.38 | 9 | 17.58 | 20 | 36.49 | 10 |
| | 7 | 7.95 | | 4.27 | | 34.79 | | 10.29 | | 17.38 | | 36.59 | |
| O. K. | | + 0ˢ.29 cos φ | | | | + 1ˢ.05 cos φ | | | | + 0ˢ.26 cos φ | | | |
| U. K. | | — 0 .29 cos φ | | | | — 1 .05 cos φ | | | | — 0 .26 cos φ | | | |

## Obere Kulmination.



| 1911 | 43 Hev. Cephei. $4^m.3$. | | | | α Ursae minoris. $2^m.0$. | | | | Gr. 750. $6^m.8$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | $0^h\ 56^m$ | | +85° 46′ | | $1^h\ 26^m$ | | +88° 50′ | | $4^h\ 8^m$ | | +85° 19′ | |
| Febr. 7 | 7.95 | 22 | 64.27 | 12 | 34.79 | 88 | 10.29 | 9 | 17.38 | 20 | 36.59 | 11 |
| 8 | 7.73 | 23 | 64.15 | 12 | 33.91 | 90 | 10.20 | 8 | 17.18 | 20 | 36.70 | 11 |
| 9 | 7.50 | 25 | 64.03 | 12 | 33.01 | 95 | 10.12 | 8 | 16.98 | 21 | 36.81 | 13 |
| 10 | 7.25 | 25 | 63.91 | 13 | 32.06 | 100 | 10.04 | 8 | 16.77 | 23 | 36.94 | 12 |
| 11 | 7.00 | 27 | 63.78 | 15 | 31.06 | 104 | 9.96 | 10 | 16.54 | 25 | 37.06 | 12 |
| 12 | 6.73 | 27 | 63.63 | 17 | 30.02 | 107 | 9.86 | 12 | 16.29 | 26 | 37.18 | 12 |
| 13 | 6.46 | 28 | 63.46 | 19 | 28.95 | 107 | 9.74 | 14 | 16.03 | 27 | 37.30 | 10 |
| 14 | 6.18 | 26 | 63.27 | 21 | 27.88 | 104 | 9.60 | 16 | 15.76 | 28 | 37.40 | 7 |
| 15 | 5.92 | 24 | 63.06 | 23 | 26.84 | 99 | 9.44 | 20 | 15.48 | 28 | 37.47 | 4 |
| 16 | 5.68 | 22 | 62.83 | 24 | 25.85 | 93 | 9.24 | 20 | 15.20 | 27 | 37.51 | 3 |
| 17 | 5.46 | 20 | 62.59 | 23 | 24.92 | 86 | 9.04 | 20 | 14.93 | 26 | 37.54 | 1 |
| 18 | 5.26 | 19 | 62.36 | 24 | 24.06 | 80 | 8.84 | 20 | 14.67 | 25 | 37.55 | 0 |
| 19 | 5.07 | 17 | 62.12 | 23 | 23.26 | 75 | 8.64 | 20 | 14.42 | 24 | 37.55 | 0 |
| 20 | 4.90 | 18 | 61.89 | 21 | 22.51 | 74 | 8.44 | 18 | 14.18 | 23 | 37.55 | 1 |
| 21 | 4.72 | 19 | 61.68 | 20 | 21.77 | 75 | 8.26 | 17 | 13.95 | 23 | 37.56 | 2 |
| 22 | 4.53 | 19 | 61.48 | 20 | 21.02 | 78 | 8.09 | 17 | 13.72 | 23 | 37.58 | 3 |
| 23 | 4.34 | 20 | 61.28 | 20 | 20.24 | 82 | 7.92 | 16 | 13.49 | 24 | 37.61 | 3 |
| 24 | 4.14 | 21 | 61.08 | 22 | 19.42 | 87 | 7.76 | 17 | 13.25 | 26 | 37.64 | 4 |
| 25 | 3.93 | 22 | 60.86 | 22 | 18.55 | 90 | 7.59 | 19 | 12.99 | 26 | 37.68 | 3 |
| 26 | 3.71 | 22 | 60.64 | 24 | 17.65 | 91 | 7.40 | 20 | 12.73 | 28 | 37.71 | 2 |
| 27 | 3.49 | 21 | 60.40 | 26 | 16.74 | 89 | 7.20 | 22 | 12.45 | 28 | 37.73 | 0 |
| 28 | 3.28 | 19 | 60.14 | 27 | 15.85 | 85 | 6.98 | 24 | 12.17 | 28 | 37.73 | 2 |
| März 1 | 3.09 | 18 | 59.87 | 29 | 15.00 | 78 | 6.74 | 25 | 11.89 | 27 | 37.71 | 4 |
| 2 | 2.91 | 17 | 59.58 | 29 | 14.22 | 70 | 6.49 | 27 | 11.62 | 27 | 37.67 | 6 |
| 3 | 2.74 | 14 | 59.29 | 28 | 13.52 | 64 | 6.22 | 26 | 11.35 | 25 | 37.61 | 8 |
| 4 | 2.60 | 12 | 59.01 | 27 | 12.88 | 58 | 5.96 | 25 | 11.10 | 23 | 37.53 | 7 |
| 5 | 2.48 | 11 | 58.74 | 26 | 12.30 | 54 | 5.71 | 24 | 10.87 | 23 | 37.46 | 8 |
| 6 | 2.37 | 10 | 58.48 | 25 | 11.76 | 52 | 5.47 | 23 | 10.64 | 22 | 37.38 | 7 |
| 7 | 2.27 | 12 | 58.23 | 24 | 11.24 | 54 | 5.24 | 22 | 10.42 | 21 | 37.31 | 7 |
| 8 | 2.15 | 13 | 57.99 | 24 | 10.70 | 57 | 5.02 | 21 | 10.21 | 21 | 37.24 | 5 |
| 9 | 2.02 | 14 | 57.75 | 24 | 10.13 | 61 | 4.81 | 22 | 10.00 | 23 | 37.19 | 3 |
| 10 | 1.88 | 15 | 57.51 | 25 | 9.52 | 64 | 4.59 | 23 | 9.77 | 24 | 37.16 | 4 |
| 11 | 1.73 | 15 | 57.26 | 26 | 8.88 | 67 | 4.36 | 23 | 9.53 | 25 | 37.12 | 5 |
| 12 | 1.58 | 15 | 57.00 | 29 | 8.21 | 68 | 4.13 | 25 | 9.28 | 26 | 37.07 | 7 |
| 13 | 1.43 | 14 | 56.71 | 30 | 7.53 | 65 | 3.88 | 28 | 9.02 | 27 | 37.00 | 8 |
| 14 | 1.39 | 12 | 56.41 | 32 | 6.88 | 60 | 3.60 | 30 | 8.75 | 26 | 36.92 | 11 |
| 15 | 1.17 | 10 | 56.09 | 33 | 6.28 | 53 | 3.30 | 31 | 8.49 | 26 | 36.81 | 13 |
| 16 | 1.07 | | 55.76 | | 5.75 | | 2.99 | | 8.23 | | 36.68 | |
| O. K. | + $0^s.29 \cos\varphi$ | | | | + $1^s.05 \cos\varphi$ | | | | + $0^s.26 \cos\varphi$ | | | |
| U. K. | — 0 .29 $\cos\varphi$ | | | | — 1 .05 $\cos\varphi$ | | | | — 0 .26 $\cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | 43 Hev. Cephei. $4^m.3$. | | | | α Ursae minoris. $2^m.0$. | | | | Gr. 750. $6^m.8$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | $0^h\ 56^m$ | | $+85°\ 46'$ | | $1^h\ 25^m$ | | $+88°\ 49'$ | | $4^h\ 8^m$ | | $+85°\ 19'$ | |
| März 16 | $1^s.07$ | 8 | 55″.76 | 33 | $65^s.75$ | 46 | 62″.99 | 32 | $8^s.23$ | 25 | 36″.68 | 16 |
| 17 | 0.99 | 7 | 55.43 | 32 | 65.29 | 39 | 62.67 | 31 | 7.98 | 23 | 36.52 | 16 |
| 18 | 0.92 | 5 | 55.11 | 32 | 64.90 | 33 | 62.36 | 31 | 7.75 | 21 | 36.36 | 16 |
| 19 | 0.87 | 4 | 54.79 | 30 | 64.57 | 29 | 62.05 | 30 | 7.54 | 20 | 36.20 | 16 |
| 20 | 0.83 | 4 | 54.49 | 29 | 64.28 | 29 | 61.75 | 28 | 7.34 | 20 | 36.04 | 16 |
| 21 | 0.79 | 5 | 54.20 | 27 | 63.99 | 31 | 61.47 | 26 | 7.14 | 20 | 35.88 | 13 |
| 22 | 0.74 | 5 | 53.93 | 27 | 63.68 | 34 | 61.21 | 25 | 6.94 | 20 | 35.75 | 13 |
| 23 | 0.69 | 7 | 53.66 | 28 | 63.34 | 38 | 60.96 | 26 | 6.74 | 22 | 35.62 | 12 |
| 24 | 0.62 | 8 | 53.38 | 28 | 62.96 | 41 | 60.70 | 27 | 6.52 | 22 | 35.50 | 12 |
| 25 | 0.54 | 7 | 53.10 | 29 | 62.55 | 42 | 60.43 | 28 | 6.30 | 22 | 35.38 | 13 |
| 26 | 0.47 | 8 | 52.81 | 32 | 62.13 | 41 | 60.15 | 31 | 6.08 | 23 | 35.25 | 14 |
| 27 | 0.39 | 6 | 52.49 | 32 | 61.72 | 37 | 59.84 | 31 | 5.85 | 23 | 35.11 | 17 |
| 28 | 0.33 | 4 | 52.17 | 34 | 61.35 | 31 | 59.53 | 33 | 5.62 | 22 | 34.94 | 19 |
| 29 | 0.29 | 2 | 51.83 | 34 | 61.04 | 24 | 59.20 | 33 | 5.40 | 22 | 34.75 | 20 |
| 30 | 0.27 | 1 | 51.49 | 34 | 60.80 | 16 | 58.87 | 34 | 5.18 | 20 | 34.55 | 22 |
| 31 | 0.26 | 2 | 51.15 | 32 | 60.64 | 9 | 58.53 | 32 | 4.98 | 18 | 34.33 | 23 |
| April 1 | 0.28 | 4 | 50.83 | 31 | 60.55 | 3 | 58.21 | 31 | 4.80 | 17 | 34.10 | 23 |
| 2 | 0.32 | 4 | 50.52 | 29 | 60.52 | 0 | 57.90 | 30 | 4.63 | 15 | 33.87 | 22 |
| 3 | 0.36 | 4 | 50.23 | 27 | 60.52 | 1 | 57.60 | 29 | 4.48 | 15 | 33.65 | 21 |
| 4 | 0.40 | 3 | 49.96 | 27 | 60.51 | 3 | 57.31 | 27 | 4.33 | 15 | 33.44 | 19 |
| 5 | 0.43 / 0.45 | 2 / 0 | 49.69 / 49.43 | 26 / 27 | 60.48 | 6 | 57.04 | 26 | 4.18 | 14 | 33.25 | 18 |
| 6 | 0.45 | 0 | 49.16 | 27 | 60.42 | 10 | 56.78 | 26 | 4.04 | 16 | 33.07 | 18 |
| 7 | 0.45 | 0 | 48.89 | 29 | 60.32 | 14 | 56.52 | 28 | 3.88 | 16 | 32.89 | 18 |
| 8 | 0.45 | 2 | 48.60 | 31 | 60.18 | 14 | 56.24 | 29 | 3.72 | 18 | 32.71 | 19 |
| 9 | 0.47 | 2 | 48.29 | 33 | 60.04 | 12 | 55.95 | 31 | 3.54 | 19 | 32.52 | 20 |
| 10 | 0.49 | 4 | 47.96 | 33 | 59.92 | 8 | 55.64 | 32 | 3.35 | 18 | 32.32 | 23 |
| 11 | 0.53 | 6 | 47.63 | 33 | 59.84 | 2 | 55.32 | 33 | 3.17 | 17 | 32.09 | 25 |
| 12 | 0.59 | 8 | 47.30 | 33 | 59.82 | 6 | 54.99 | 35 | 3.00 | 17 | 31.84 | 27 |
| 13 | 0.67 | 10 | 46.97 | 31 | 59.88 / 60.02 | 14 / 20 | 54.64 / 54.30 | 34 / 34 | 2.83 | 14 | 31.57 | 28 |
| 14 | 0.77 | 10 | 46.66 | 30 | 60.22 | 24 | 53.96 | 31 | 2.69 | 13 | 31.29 | 28 |
| 15 | 0.87 | 12 | 46.36 | 29 | 60.46 | 26 | 53.65 | 30 | 2.56 | 11 | 31.01 | 28 |
| 16 | 0.99 | 11 | 46.07 | 26 | 60.72 | 25 | 53.35 | 28 | 2.45 | 11 | 30.73 | 27 |
| 17 | 1.10 | 10 | 45.81 | 25 | 60.97 | 22 | 53.07 | 27 | 2.34 | 9 | 30.46 | 26 |
| 18 | 1.20 | 9 | 45.56 | 24 | 61.19 | 19 | 52.80 | 26 | 2.25 | 10 | 30.20 | 24 |
| 19 | 1.29 | 8 | 45.32 | 26 | 61.38 | 15 | 52.54 | 27 | 2.15 | 10 | 29.96 | 22 |
| 20 | 1.37 | | 45.06 | | 61.53 | | 52.27 | | 2.05 | | 29.74 | |
| O. K. | $+ 0^s.29 \cos\varphi$ | | | | $+ 1^s.05 \cos\varphi$ | | | | $+ 0^s.26 \cos\varphi$ | | | |
| U. K. | $- 0.29 \cos\varphi$ | | | | $- 1.05 \cos\varphi$ | | | | $- 0.26 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | 43 Hev. Cephei. $4^m.3$. | | | | α Ursae minoris. $2^m.0$. | | | | Gr. 750. $6^m.8$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | $0^h\ 56^m$ | | $+85°\ 46'$ | | $1^h\ 26^m$ | | $+88°\ 49'$ | | $4^h\ 8^m$ | | $+85°\ 19'$ | |
| April 20 | $1^s.37$ | 7 | $45''.06$ | 26 | $1^s.53$ | 13 | $52''.27$ | 28 | $2^s.05$ | 11 | $29''.74$ | 22 |
| 21 | 1.44 | 7 | 44.80 | 28 | 1.66 | 13 | 51.99 | 28 | 1.94 | 12 | 29.52 | 24 |
| 22 | 1.51 | 8 | 44.52 | 28 | 1.79 | 15 | 51.71 | 30 | 1.82 | 12 | 29.28 | 24 |
| 23 | 1.59 | 10 | 44.24 | 30 | 1.94 | 21 | 51.41 | 32 | 1.70 | 12 | 29.04 | 26 |
| 24 | 1.69 | 13 | 43.94 | 31 | 2.15 | 28 | 51.09 | 31 | 1.58 | 12 | 28.78 | 27 |
| 25 | 1.82 | 14 | 43.63 | 30 | 2.43 | 35 | 50.78 | 31 | 1.46 | 12 | 28.51 | 29 |
| 26 | 1.96 | 16 | 43.33 | 28 | 2.78 | 43 | 50.47 | 31 | 1.34 | 10 | 28.22 | 30 |
| 27 | 2.12 | 17 | 43.05 | 27 | 3.21 | 49 | 50.16 | 30 | 1.24 | 7 | 27.92 | 32 |
| 28 | 2.29 | 18 | 42.78 | 24 | 3.70 | 53 | 49.86 | 28 | 1.17 | 5 | 27.60 | 31 |
| 29 | 2.47 | 19 | 42.54 | 23 | 4.23 | 54 | 49.58 | 25 | 1.12 | 5 | 27.29 | 30 |
| 30 | 2.66 | 18 | 42.31 | 22 | 4.77 | 51 | 49.33 | 24 | 1.07 | 3 | 26.99 | 29 |
| Mai 1 | 2.84 | 16 | 42.09 | 20 | 5.28 | 48 | 49.09 | 23 | 1.04 | 2 | 26.70 | 27 |
| 2 | 3.00 | 15 | 41.89 | 20 | 5.76 | 44 | 48.86 | 23 | 1.02 | 2 | 26.43 | 25 |
| 3 | 3.15 | 14 | 41.69 | 20 | 6.20 | 40 | 48.63 | 22 | 1.00 | 2 | 26.18 | 25 |
| 4 | 3.29 | 14 | 41.49 | 22 | 6.60 | 38 | 48.41 | 24 | 0.98 | 4 | 25.93 | 24 |
| 5 | 3.43 | 15 | 41.27 | 23 | 6.98 | 38 | 48.17 | 26 | 0.94 | 5 | 25.69 | 26 |
| 6 | 3.58 | 16 | 41.04 | 24 | 7.36 | 42 | 47.91 | 26 | 0.89 | 6 | 25.43 | 26 |
| 7 | 3.74 | 17 | 40.80 | 25 | 7.78 | 47 | 47.65 | 28 | 0.83 | 6 | 25.17 | 28 |
| 8 | 3.91 | 19 | 40.55 | 25 | 8.25 | 54 | 47.37 | 28 | 0.77 | 5 | 24.89 | 30 |
| 9 | 4.10 | 21 | 40.30 | 24 | 8.79 | 61 | 47.09 | 28 | 0.72 | 4 | 24.59 | 32 |
| 10 | 4.31 | 22 | 40.06 | 24 | 9.40 | 67 | 46.81 | 27 | 0.68 | 2 | 24.27 | 32 |
| 11 | 4.53 | 23 | 39.82 | 22 | 10.07 | 72 | 46.54 | 26 | 0.66 | 1 | 23.95 | 33 |
| 12 | 4.76 | 24 | 39.60 | 20 | 10.79 | 74 | 46.28 | 23 | 0.65 | 1 | 23.62 | 33 |
| 13 | 5.00 | 24 | 39.40 | 18 | 11.53 | 75 | 46.05 | 22 | 0.66 | 2 | 23.29 | 32 |
| 14 | 5.24 | 23 | 39.22 | 17 | 12.28 | 72 | 45.83 | 21 | 0.68 | 4 | 22.97 | 30 |
| 15 | 5.47 | 21 | 39.05 | 15 | 13.00 | 68 | 45.62 | 19 | 0.72 | 3 | 22.67 | 28 |
| 16 | 5.68 | 21 | 38.90 | 15 | 13.68 | 63 | 45.43 | 19 | 0.75 | 4 | 22.39 | 26 |
| 17 | 5.89 | 19 | 38.75 | 16 | 14.31 | 60 | 45.24 | 18 | 0.79 | 2 | 22.13 | 26 |
| 18 | 6.08 | 19 | 38.59 | 16 | 14.91 | 58 | 45.06 | 20 | 0.81 | 3 | 21.87 | 25 |
| 19 | 6.27 | 20 | 38.43 | 18 | 15.49 | 60 | 44.86 | 21 | 0.84 | 2 | 21.62 | 26 |
| 20 | 6.47 | 21 | 38.25 | 19 | 16.09 | 64 | 44.65 | 22 | 0.86 | 1 | 21.36 | 27 |
| 21 | 6.68 | 23 | 38.06 | 19 | 16.73 | 69 | 44.43 | 22 | 0.87 | 1 | 21.09 | 29 |
| 22 | 6.91 | 24 | 37.87 | 18 | 17.42 | 76 | 44.21 | 22 | 0.88 | 2 | 20.80 | 30 |
| 23 | 7.15 | 26 | 37.69 | 18 | 18.18 | 83 | 43.99 | 22 | 0.90 | 3 | 20.50 | 31 |
| 24 | 7.41 | 28 | 37.51 | 16 | 19.01 | 90 | 43.77 | 21 | 0.93 | 6 | 20.19 | 32 |
| 25 | 7.69 | 29 | 37.35 | 14 | 19.91 | 94 | 43.56 | 18 | {0.99 / 1.06} | 7 / 9 | {19.87 / 19.55} | 32 / 31 |
| 26 | 7.98 | | 37.21 | | 20.85 | | 43.38 | | 1.15 | | 19.24 | |
| O. K. | $+0^s.29\cos\varphi$ | | | | $+1^s.04\cos\varphi$ | | | | $+0^s.26\cos\varphi$ | | | |
| U. K. | $-0.29\cos\varphi$ | | | | $-1.04\cos\varphi$ | | | | $-0.26\cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | | 43 Hev. Cephei. $4^m.3$. | | | | α Ursae minoris. $2^m.0$. | | | | Gr. 750. $6^m.8$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | | $0^h\ 56^m$ | | $+85°\ 46'$ | | $1^h\ 26^m$ | | $+88°\ 49'$ | | $4^h\ 8^m$ | | $+85°\ 19'$ | |
| Mai | 26 | $7^s.98$ | 28 | $37''.21$ | 12 | $20^s.85$ | 95 | $43''.38$ | 16 | $1^s.15$ | 11 | $19''.24$ | 30 |
| | 27 | 8.26 | 29 | 37.09 | 9 | 21.80 | 93 | 43.22 | 14 | 1.26 | 11 | 18.94 | 27 |
| | 28 | 8.55 | 27 | 37.00 | 8 | 22.73 | 90 | 43.08 | 12 | 1.37 | 11 | 18.67 | 26 |
| | 29 | 8.82 | 26 | 36.92 | 7 | 23.63 | 86 | 42.96 | 12 | 1.48 | 11 | 18.41 | 25 |
| | 30 | 9.08 | 24 | 36.85 | 7 | 24.49 | 81 | 42.84 | 12 | 1.59 | 9 | 18.16 | 24 |
| | 31 | 9.32 | 24 | 36.78 | 8 | 25.30 | 77 | 42.72 | 13 | 1.68 | 9 | 17.92 | 24 |
| Juni | 1 | 9.56 | 23 | 36.70 | 10 | 26.07 | 76 | 42.59 | 13 | 1.77 | 8 | 17.68 | 24 |
| | 2 | 9.79 | 24 | 36.60 | 11 | 26.83 | 78 | 42.46 | 14 | 1.85 | 8 | 17.44 | 25 |
| | 3 | 10.03 | 25 | 36.49 | 11 | 27.61 | 81 | 42.32 | 16 | 1.93 | 8 | 17.19 | 27 |
| | 4 | 10.28 | 26 | 36.38 | 13 | 28.42 | 86 | 42.16 | 16 | 2.01 | 8 | 16.92 | 29 |
| | 5 | 10.54 | 28 | 36.25 | 12 | 29.28 | 93 | 42.00 | 17 | 2.09 | 10 | 16.63 | 30 |
| | 6 | 10.82 | 31 | 36.13 | 10 | 30.21 | 100 | 41.83 | 16 | 2.19 | 12 | 16.33 | 30 |
| | 7 | 11.13 | 31 | 36.03 | 9 | 31.21 | 104 | 41.67 | 13 | 2.31 | 14 | 16.03 | 30 |
| | 8 | 11.44 | 31 | 35.94 | 7 | 32.25 | 107 | 41.54 | 12 | 2.45 | 15 | 15.73 | 29 |
| | 9 | 11.75 | 32 | 35.87 | 5 | 33.32 | 107 | 41.42 | 10 | 2.60 | 16 | 15.44 | 27 |
| | 10 | 12.07 | 30 | 35.82 | 3 | 34.39 | 104 | 41.32 | 8 | 2.76 | 16 | 15.17 | 25 |
| | 11 | 12.37 | 30 | 35.79 | 2 | 35.43 | 100 | 41.24 | 6 | 2.92 | 17 | 14.92 | 23 |
| | 12 | 12.67 | 28 | 35.77 | 1 | 36.43 | 95 | 41.18 | 6 | 3.09 | 16 | 14.69 | 22 |
| | 13 | 12.95 | 26 | 35.76 | 0 | 37.38 | 90 | 41.12 | 5 | 3.25 | 14 | 14.47 | 22 |
| | 14 | 13.21 | 26 | 35.76 | 2 | 38.28 | 88 | 41.07 | 6 | 3.39 | 14 | 14.25 | 20 |
| | 15 | 13.47 | 25 | 35.74 | 4 | 39.16 | 87 | 41.01 | 7 | 3.53 | 14 | 14.05 | 22 |
| | 16 | 13.72 | 26 | 35.70 | 4 | 40.03 | 89 | 40.94 | 9 | 3.67 | 14 | 13.83 | 23 |
| | 17 | 13.98 | 28 | 35.66 | 4 | 40.92 | 93 | 40.85 | 8 | 3.81 | 14 | 13.60 | 24 |
| | 18 | 14.26 | 30 | 35.62 | 4 | 41.85 | 99 | 40.77 | 9 | 3.95 | 16 | 13.36 | 26 |
| | 19 | 14.56 | 30 | 35.58 | 3 | 42.84 | 105 | 40.68 | 9 | 4.11 | 16 | 13.10 | 26 |
| | 20 | 14.86 | 32 | 35.55 | 2 | 43.89 | 111 | 40.59 | 7 | 4.27 | 18 | 12.84 | 27 |
| | 21 | 15.18 | 33 | 35.53 | 1 | 45.00 | 116 | 40.52 | 5 | 4.45 | 21 | 12.57 | 25 |
| | 22 | 15.51 | 34 | 35.54 | 3 | 46.16 | 117 | 40.47 | 3 | 4.66 | 22 | 12.32 | 24 |
| | 23 | 15.85 | 33 | 35.57 | 5 | 47.33 | 117 | 40.44 | 1 | 4.88 | 22 | 12.08 | 22 |
| | 24 | 16.18 | 32 | 35.62 | 6 | 48.50 | 113 | 40.43 | 2 | 5.10 | 23 | 11.86 | 19 |
| | 25 | 16.50 | 31 | 35.68 | 7 | 49.63 | 108 | 40.45 | 2 | 5.33 | 22 | 11.67 | 19 |
| | 26 | 16.81 | 29 | 35.75 | 8 | 50.71 | 102 | 40.47 | 3 | 5.55 | 22 | 11.48 | 17 |
| | 27 | 17.10 | 27 | 35.83 | 7 | 51.73 | 97 | 40.50 | 2 | 5.77 | 21 | 11.31 | 16 |
| | 28 | 17.37 | 26 | 35.90 | 6 | 52.70 | 94 | 40.52 | 2 | 5.98 | 19 | 11.15 | 16 |
| | 29 | 17.63 | 27 | 35.96 | 6 | 53.64 | 94 | 40.54 | 0 | 6.17 | 19 | 10.99 | 18 |
| | 30 | 17.90 | 27 | 36.02 | 4 | 54.58 | 96 | 40.54 | 1 | 6.36 | 19 | 10.81 | 18 |
| Juli | 1 | 18.17 | 29 | 36.06 | 3 | 55.54 | 100 | 40.53 | 1 | 6.55 | 19 | 10.63 | 19 |
| | 2 | 18.46 | | 36.09 | | 56.54 | | 40.52 | | 6.74 | | 10.44 | |
| O. K. | | $+ 0^s.29 \cos \varphi$ | | | | $+ 1^s.04 \cos \varphi$ | | | | $+ 0^s.26 \cos \varphi$ | | | |
| U. K. | | $- 0.29 \cos \varphi$ | | | | $- 1.04 \cos \varphi$ | | | | $- 0.26 \cos \varphi$ | | | |

## Obere Kulmination.

| 1911 | 43 Hev. Cephei. $4^m.3$. AR. | | Dekl. | | α Ursae minoris. $2^m.0$. AR. | | Dekl. | | Gr. 750. $6^m.8$. AR. | | Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $0^h\,56^m$ | | $+85°\,46'$ | | $1^h\,26^m$ | | $+88°\,49'$ | | $4^h\,8^m$ | | $+85°\,19'$ | |
| Juli 2 | $18^s.46$ | 30 | $36''.09$ | 3 | $56^s.54$ | 106 | $40''.52$ | 1 | $6^s.74$ | 20 | $10''.44$ | 21 |
| 3 | 18.76 | 32 | 36.12 | 3 | 57.60 | 111 | 40.51 | 1 | 6.94 | 22 | 10.23 | 22 |
| 4 | 19.08 | 33 | 36.15 | 5 | 58.71 | 116 | 40.50 | 0 | 7.16 | 23 | 10.01 | 22 |
| 5 | 19.41 | 33 | 36.20 | 8 | 59.87 | 119 | 40.50 | 2 | 7.39 | 26 | 9.79 | 20 |
| 6 | 19.74 | 33 | 36.28 | 11 | 61.06 | 120 | 40.52 | 4 | 7.65 | 26 | 9.59 | 19 |
| 7 | 20.07 | 33 | 36.39 | 11 | 62.26 | 118 | 40.56 | 7 | 7.91 | 27 | 9.40 | 17 |
| 8 | 20.40 | 31 | 36.50 | 13 | 63.44 | 113 | 40.63 | 7 | 8.18 | 26 | 9.23 | 15 |
| 9 | 20.71 | 29 | 36.63 | 14 | 64.57 | 107 | 40.70 | 9 | 8.44 | 25 | 9.08 | 14 |
| 10 | 21.00 | 28 | 36.77 | 14 | 65.64 | 101 | 40.79 | 10 | 8.69 | 25 | 8.94 | 12 |
| 11 | 21.28 | 26 | 36.91 | 14 | 66.65 | 97 | 40.89 | 9 | 8.94 | 23 | 8.82 | 11 |
| 12 | 21.54 | 26 | 37.05 | 13 | 67.62 | 95 | 40.98 | 9 | 9.17 | 23 | 8.71 | 12 |
| 13 | 21.80 | 26 | 37.18 | 11 | 68.57 | 95 | 41.07 | 7 | 9.40 | 23 | 8.59 | 12 |
| 14 | 22.06 | 27 | 37.29 | 11 | 69.52 | 97 | 41.14 | 6 | 9.63 | 23 | 8.47 | 13 |
| 15 | 22.33 | 28 | 37.40 | 11 | 70.49 | 102 | 41.20 | 5 | 9.86 | 24 | 8.34 | 15 |
| 16 | 22.61 | 29 | 37.51 | 11 | 71.51 | 108 | 41.25 | 7 | 10.10 | 24 | 8.19 | 16 |
| 17 | 22.90 | 31 | 37.62 | 12 | 72.59 | 114 | 41.32 | 7 | 10.34 | 27 | 8.03 | 15 |
| 18 | 23.21 | 33 | 37.74 | 14 | 73.73 | 118 | 41.39 | 9 | 10.61 | 28 | 7.88 | 16 |
| 19 | 23.54 | 33 | 37.88 | 17 | 74.91 | 119 | 41.48 | 11 | 10.89 | 30 | 7.72 | 14 |
| 20 | 23.87 | 32 | 38.05 | 19 | 76.10 | 119 | 41.59 | 13 | 11.19 | 30 | 7.58 | 12 |
| 21 | 24.19 | 30 | 38.24 | 20 | 77.29 | 116 | 41.72 | 15 | 11.49 | 31 | 7.46 | 10 |
| 22 | 24.49 | 29 | 38.44 | 22 | 78.45 | 111 | 41.87 | 17 | 11.80 | 31 | 7.36 | 8 |
| 23 | 24.78 | 27 | 38.66 | 22 | 79.56 | 104 | 42.04 | 18 | 12.11 | 30 | 7.28 | 6 |
| 24 | 25.05 | 26 | 38.88 | 22 | 80.60 | 98 | 42.22 | 18 | 12.41 | 29 | 7.22 | 5 |
| 25 | 25.31 | 25 | 39.10 | 21 | 81.58 | 94 | 42.40 | 17 | 12.70 | 27 | 7.17 | 4 |
| 26 | 25.56 | 24 | 39.31 | 20 | 82.52 | 92 | 42.57 | 15 | 12.97 | 26 | 7.13 | 6 |
| 27 | 25.80 | 24 | 39.51 | 19 | 83.44 | 92 | 42.72 | 14 | 13.23 | 26 | 7.07 | 6 |
| 28 | 26.04 | 25 | 39.70 | 18 | 84.36 | 94 | 42.86 | 14 | 13.49 | 26 | 7.01 | 8 |
| 29 | 26.29 | 27 | 39.88 | 17 | 85.30 | 99 | 43.00 | 12 | 13.75 | 27 | 6.93 | 9 |
| 30 | 26.56 | 28 | 40.05 | 17 | 86.29 | 105 | 43.12 | 13 | 14.02 | 27 | 6.84 | 9 |
| 31 | 26.84 | 28 | 40.22 | 18 | 87.34 | 109 | 43.25 | 14 | 14.29 | 29 | 6.75 | 10 |
| Aug. 1 | 27.12 | 30 | 40.40 | 21 | 88.43 | 112 | 43.39 | 16 | 14.58 | 30 | 6.65 | 10 |
| 2 | 27.42 | 30 | 40.61 | 22 | 89.55 | 113 | 43.55 | 17 | 14.88 | 32 | 6.55 | 8 |
| 3 | 27.72 | 29 | 40.83 | 25 | 90.68 | 112 | 43.72 | 20 | 15.20 | 33 | 6.47 | 6 |
| 4 | 28.01 | 28 | 41.08 | 27 | 91.80 | 107 | 43.92 | 21 | 15.53 | 32 | 6.41 | 4 |
| 5 | 28.29 | 26 | 41.35 | 27 | 92.87 | 101 | 44.13 | 23 | 15.85 | 32 | 6.37 | 1 |
| 6 | 28.55 | 23 | 41.62 | 27 | 93.88 | 94 | 44.36 | 23 | 16.17 | 31 | 6.36 | 1 |
| 7 | 28.78 | 22 | 41.89 | 27 | 94.82 | 88 | 44.59 | 24 | 16.48 | 29 | 6.37 | 1 |
| 8 | 29.00 | | 42.16 | | 95.70 | | 44.83 | | 16.77 | | 6.38 | |
| O. K. | $+0^s.29\cos\varphi$ | | | | $+1^s.04\cos\varphi$ | | | | $+0^s.26\cos\varphi$ | | | |
| U. K. | $-0\,.29\cos\varphi$ | | | | $-1\,.04\cos\varphi$ | | | | $-0\,.26\cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | 43 Hev. Cephei. $4^m.3$. | | | | α Ursae minoris. $2^m.0$. | | | | Gr. 750. $6^m.8$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | Diff. | Dekl. | Diff. | AR. | Diff. | Dekl. | Diff. | AR. | Diff. | Dekl. | Diff. |
| | $0^h\ 56^m$ | | $+85°\ 46'$ | | $1^h\ 27^m$ | | $+88°\ 49'$ | | $4^h\ 8^m$ | | $+85°\ 19'$ | |
| Aug. 8 | $29^s.00$ | 22 | $42''.16$ | 26 | $35^s.70$ | 85 | $44''.83$ | 22 | $16^s.77$ | 28 | $6''.38$ | 1 |
| 9 | 29.22 | 21 | 42.42 | 25 | 36.55 | 83 | 45.05 | 22 | 17.05 | 27 | 6.39 | 1 |
| 10 | 29.43 | 21 | 42.67 | 24 | 37.38 | 84 | 45.27 | 20 | 17.32 | 28 | 6.40 | 1 |
| 11 | 29.64 | 23 | 42.91 | 24 | 38.22 | 88 | 45.47 | 19 | 17.60 | 27 | 6.39 | 2 |
| 12 | 29.87 | 23 | 43.15 | 23 | 39.10 | 93 | 45.66 | 19 | 17.87 | 29 | 6.37 | 3 |
| 13 | 30.10 | 25 | 43.38 | 24 | 40.03 | 98 | 45.85 | 20 | 18.16 | 31 | 6.34 | 4 |
| 14 | 30.35 | 26 | 43.62 | 26 | 41.01 | 102 | 46.05 | 21 | 18.47 | 31 | 6.30 | 3 |
| 15 | 30.61 | 27 | 43.88 | 28 | 42.03 | 104 | 46.26 | 23 | 18.78 | 33 | 6.27 | 2 |
| 16 | 30.88 | 26 | 44.16 | 30 | 43.07 | 104 | 46.49 | 26 | 19.11 | 34 | 6.25 | 0 |
| 17 | 31.14 | 25 | 44.46 | 32 | 44.11 | 101 | 46.75 | 28 | 19.45 | 35 | 6.25 | 2 |
| 18 | 31.39 | 24 | 44.78 | 33 | 45.12 | 96 | 47.03 | 29 | 19.80 | 34 | 6.27 | 5 |
| 19 | 31.63 | 22 | 45.11 | 33 | 46.08 | 90 | 47.32 | 31 | 20.14 | 34 | 6.32 | 6 |
| 20 | 31.85 | 19 | 45.44 | 33 | 46.98 | 84 | 47.63 | 30 | 20.48 | 32 | 6.38 | 8 |
| 21 | 32.04 | 18 | 45.77 | 33 | 47.82 | 78 | 47.93 | 29 | 20.80 | 30 | 6.46 | 8 |
| 22 | 32.22 | 18 | 46.10 | 32 | 48.60 | 73 | 48.22 | 28 | 21.10 | 30 | 6.54 | 7 |
| 23 | 32.40 | 17 | 46.42 | 30 | 49.33 | 72 | 48.50 | 28 | 21.40 | 28 | 6.61 | 7 |
| 24 | 32.57 | 18 | 46.72 | 29 | 50.05 | 74 | 48.78 | 26 | 21.68 | 29 | 6.68 | 6 |
| 25 | 32.75 | 19 | 47.01 | 29 | 50.79 | 77 | 49.04 | 25 | 21.97 | 29 | 6.74 | 4 |
| 26 | 32.94 | 19 | 47.30 | 28 | 51.56 | 81 | 49.29 | 24 | 22.26 | 29 | 6.78 | 4 |
| 27 | 33.13 | 21 | 47.58 | 29 | 52.37 | 86 | 49.53 | 25 | 22.55 | 30 | 6.82 | 3 |
| 28 | 33.34 | 22 | 47.87 | 30 | 53.23 | 90 | 49.78 | 27 | 22.85 | 32 | 6.85 | 3 |
| 29 | 33.56 | 22 | 48.17 | 31 | 54.13 | 91 | 50.05 | 28 | 23.17 | 32 | 6.88 | 5 |
| 30 | 33.78 | 21 | 48.48 | 34 | 55.04 | 89 | 50.33 | 30 | 23.49 | 34 | 6.93 | 6 |
| 31 | 33.99 | 20 | 48.82 | 35 | 55.93 | 85 | 50.63 | 32 | 23.83 | 33 | 6.99 | 9 |
| Sept. 1 | 34.19 | 18 | 49.17 | 37 | 56.78 | 79 | 50.95 | 34 | 24.16 | 34 | 7.08 | 10 |
| 2 | 34.37 | 16 | 49.54 | 38 | 57.57 | 72 | 51.29 | 34 | 24.50 | 33 | 7.18 | 13 |
| 3 | 34.53 | 15 | 49.92 | 37 | 58.29 | 66 | 51.63 | 35 | 24.83 | 31 | 7.31 | 14 |
| 4 | 34.68 | 13 | 50.29 | 35 | 58.95 | 61 | 51.98 | 33 | 25.14 | 29 | 7.45 | 13 |
| 5 | 34.81 | 12 | 50.64 | 35 | 59.56 | 57 | 52.31 | 32 | 25.43 | 29 | 7.58 | 14 |
| 6 | 34.93 | 12 | 50.99 | 33 | 60.13 | 57 | 52.63 | 31 | 25.72 | 28 | 7.72 | 12 |
| 7 | 35.05 | 13 | 51.32 | 32 | 60.70 | 59 | 52.94 | 30 | 26.00 | 27 | 7.84 | 12 |
| 8 | 35.18 | 15 | 51.64 | 31 | 61.29 | 63 | 53.24 | 30 | 26.27 | 28 | 7.96 | 11 |
| 9 | 35.33 | 15 | 51.95 | 33 | 61.92 | 68 | 53.54 | 29 | 26.55 | 29 | 8.07 | 10 |
| 10 | 35.48 | 16 | 52.28 | 33 | 62.60 | 72 | 53.83 | 30 | 26.84 | 30 | 8.17 | 9 |
| 11 | 35.64 | 17 | 52.61 | 35 | 63.32 | 75 | 54.13 | 33 | 27.14 | 31 | 8.26 | 10 |
| 12 | 35.81 | 17 | 52.96 | 37 | 64.07 | 76 | 54.46 | 34 | 27.45 | 33 | 8.36 | 12 |
| 13 | 35.98 | 16 | 53.33 | 39 | 64.83 | 73 | 54.80 | 36 | 27.78 | 34 | 8.48 | 14 |
| 14 | 36.14 | | 53.72 | | 65.56 | | 55.16 | | 28.12 | | 8.62 | |
| O. K. | $+ 0^s.29 \cos\varphi$ | | | | $+ 1^s.04 \cos\varphi$ | | | | $+ 0^s.26 \cos\varphi$ | | | |
| U. K. | $- 0.29 \cos\varphi$ | | | | $- 1.04 \cos\varphi$ | | | | $- 0.26 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | 43 Hev. Cephei. $4^m.3$. | | | | α Ursae minoris. $2^m.0$. | | | | Gr. 750. $6^m.8$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | $0^h\ 56^m$ | | +85° 46′ | | $1^h\ 28^m$ | | +88° 49′ | | $4^h\ 8^m$ | | +85° 19′ | |
| Sept. 14 | $36^s.14$ | 15 | $53''.72$ | 40 | $5^s.56$ | 68 | $55''.16$ | 38 | $28^s.12$ | 34 | $8''.62$ | 16 |
| 15 | 36.29 | 13 | 54.12 | 41 | 6.24 | 62 | 55.54 | 39 | 28.46 | 33 | 8.78 | 17 |
| 16 | 36.42 | 11 | 54.53 | 41 | 6.86 | 54 | 55.93 | 39 | 28.79 | 31 | 8.95 | 20 |
| 17 | 36.53 | 8 | 54.94 | 40 | 7.40 | 48 | 56.32 | 39 | 29.10 | 29 | 9.15 | 20 |
| 18 | 36.61 | 8 | 55.34 | 39 | 7.88 | 43 | 56.71 | 37 | 29.39 | 29 | 9.35 | 21 |
| 19 | 36.69 | 8 | 55.73 | 38 | 8.31 | 41 | 57.08 | 36 | 29.68 | 27 | 9.56 | 20 |
| 20 | 36.77 | 7 | 56.11 | 36 | 8.72 | 40 | 57.44 | 35 | 29.95 | 26 | 9.76 | 19 |
| 21 | 36.84 | 8 | 56.47 | 35 | 9.12 | 42 | 57.79 | 33 | 30.21 | 27 | 9.95 | 17 |
| 22 | 36.92 | 9 | 56.82 | 34 | 9.54 | 46 | 58.12 | 32 | 30.48 | 26 | 10.12 | 15 |
| 23 | 37.01 | 10 | 57.16 | 35 | 10.00 | 51 | 58.44 | 34 | 30.74 | 28 | 10.27 | 16 |
| 24 | 37.11 | 11 | 57.51 | 35 | 10.51 | 54 | 58.78 | 34 | 31.02 | 29 | 10.43 | 15 |
| 25 | 37.22 | 11 | 57.86 | 37 | 11.05 | 55 | 59.12 | 35 | 31.31 | 30 | 10.58 | 16 |
| 26 | 37.33 | 11 | 58.23 | 38 | 11.60 | 55 | 59.47 | 36 | 31.61 | 30 | 10.74 | 18 |
| 27 | 37.44 | 10 | 58.61 | 40 | 12.15 | 52 | 59.83 | 38 | 31.91 | 31 | 10.92 | 19 |
| 28 | 37.54 | 9 | 59.01 | 41 | 12.67 | 46 | 60.21 | 40 | 32.22 | 30 | 11.11 | 22 |
| 29 | 37.63 | 6 | 59.42 | 42 | 13.13 | 39 | 60.61 | 41 | 32.52 | 28 | 11.33 | 23 |
| 30 | 37.69 | 4 | 59.84 | 41 | 13.52 | 31 | 61.02 | 40 | 32.80 | 28 | 11.56 | 25 |
| Okt. 1 | 37.73 | 2 | 60.25 | 41 | 13.83 | 25 | 61.42 | 40 | 33.08 | 26 | 11.81 | 26 |
| 2 | 37.75 | 1 | 60.66 | 39 | 14.08 | 21 | 61.82 | 39 | 33.34 | 25 | 12.07 | 25 |
| 3 | 37.76 | 2 | 61.05 | 38 | 14.29 | 19 | 62.21 | 37 | 33.59 | 24 | 12.32 | 25 |
| 4 | 37.78 | 2 | 61.43 | 36 | 14.48 | 19 | 62.58 | 36 | 33.83 | 24 | 12.57 | 23 |
| 5 | 37.80 | 2 | 61.79 | 36 | 14.67 | 23 | 62.94 | 36 | 34.07 | 23 | 12.80 | 23 |
| 6 | 37.82 | 3 | 62.15 | 35 | 14.90 | 28 | 63.30 | 35 | 34.30 | 24 | 13.03 | 21 |
| 7 | 37.85 | 5 | 62.50 | 36 | 15.18 | 32 | 63.65 | 35 | 34.54 | 25 | 13.24 | 20 |
| 8 | 37.90 | 5 | 62.86 | 37 | 15.50 | 34 | 64.00 | 36 | 34.79 | 27 | 13.44 | 21 |
| 9 | 37.95 | 6 | 63.23 | 38 | 15.84 | 36 | 64.36 | 38 | 35.06 | 27 | 13.65 | 22 |
| 10 | 38.01 | 4 | 63.61 | 41 | 16.20 | 34 | 64.74 | 39 | 35.33 | 28 | 13.87 | 23 |
| 11 | 38.05 | 4 | 64.02 | 42 | 16.54 | 31 | 65.13 | 42 | 35.61 | 28 | 14.10 | 25 |
| 12 | 38.09 | 2 | 64.44 | 43 | 16.85 | 24 | 65.55 | 43 | 35.89 | 27 | 14.35 | 28 |
| 13 | 38.11 | 1 | 64.87 | 43 | 17.09 | 16 | 65.98 | 43 | 36.16 | 27 | 14.63 | 31 |
| 14 | 38.10 | 2 | 65.30 | 42 | 17.25 | 9 | 66.41 | 43 | 36.43 | 24 | 14.94 | 31 |
| 15 | 38.08 | 4 | 65.72 | 41 | 17.34 | 3 | 66.84 | 42 | 36.67 | 23 | 15.25 | 31 |
| 16 | 38.04 | 4 | 66.13 | 40 | 17.37 | 1 | 67.26 | 40 | 36.90 | 22 | 15.56 | 30 |
| 17 | 38.00 | 5 | 66.53 | 37 | 17.36 | 2 | 67.66 | 39 | 37.12 | 21 | 15.86 | 29 |
| 18 | 37.95 | 5 | 66.90 | 36 | 17.34 | 1 | 68.05 | 37 | 37.33 | 20 | 16.15 | 29 |
| 19 | 37.90 | 3 | 67.26 | 35 | 17.33 | 1 | 68.42 | 35 | 37.53 | 19 | 16.44 | 26 |
| 20 | 37.87 | 2 | 67.61 | 34 | 17.34 | 6 | 68.77 | 34 | 37.72 | 20 | 16.70 | 24 |
| 21 | 37.85 | | 67.95 | | 17.40 | | 69.11 | | 37.92 | | 16.94 | |
| O. K. | $+0^s.29 \cos\varphi$ | | | | $+1^s.05 \cos\varphi$ | | | | $+0^s.26 \cos\varphi$ | | | |
| U. K. | $-0.29 \cos\varphi$ | | | | $-1.05 \cos\varphi$ | | | | $-0.26 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | 43 Hev. Cephei. $4^m.3$. | | | | α Ursae minoris. $2^m.0$. | | | | Gr. 750. $6^m.8$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | Diff. | Dekl. | Diff. | AR. | Diff. | Dekl. | Diff. | AR. | Diff. | Dekl. | Diff. |
| | $0^h\,56^m$ | | $+85°\,47'$ | | $1^h\,28^m$ | | $+88°\,50'$ | | $4^h\,8^m$ | | $+85°\,19'$ | |
| Okt. 21 | $37^s.85$ | 1 | $7''.95$ | 35 | $17^s.40$ | 10 | $9''.11$ | 36 | $37^s.92$ | 22 | $16''.94$ | 25 |
| 22 | 37.84 | 1 | 8.30 | 36 | 17.50 | 12 | 9.47 | 36 | 38.14 | 22 | 17.19 | 26 |
| 23 | 37.83 | 2 | 8.66 | 38 | 17.62 | 12 | 9.83 | 38 | 38.36 | 23 | 17.45 | 26 |
| 24 | 37.81 | 2 | 9.04 | 39 | 17.74 | 9 | 10.21 | 40 | 38.59 | 23 | 17.71 | 28 |
| 25 | 37.79 | 3 | 9.43 | 40 | 17.83 | 4 | 10.61 | 41 | 38.82 | 23 | 17.99 | 30 |
| 26 | 37.76 | 5 | 9.83 | 41 | 17.87 | 3 | 11.02 | 42 | 39.05 | 22 | 18.29 | 32 |
| 27 | 37.71 | 7 | 10.24 | 40 | 17.84 | 10 | 11.44 | 42 | 39.27 | 20 | 18.61 | 34 |
| 28 | 37.64 | 9 | 10.64 | 39 | 17.74 | 17 | 11.86 | 41 | 39.47 | 19 | 18.95 | 35 |
| 29 | 37.55 | 10 | 11.03 | 38 | 17.57 | 23 | 12.27 | 39 | 39.66 | 17 | 19.30 | 34 |
| 30 | 37.45 | 12 | 11.41 | 36 | 17.34 | 26 | 12.66 | 38 | 39.83 | 16 | 19.64 | 34 |
| 31 | 37.33 | 11 | 11.77 | 34 | 17.08 | 26 | 13.04 | 36 | 39.99 | 15 | 19.98 | 32 |
| Nov. 1 | 37.22 | 10 | 12.11 | 34 | 16.82 | 24 | 13.40 | 35 | 40.14 | 15 | 20.30 | 30 |
| 2 | 37.12 | 9 | 12.45 | 33 | 16.58 | 21 | 13.75 | 35 | 40.29 | 15 | 20.60 | 30 |
| 3 | 37.03 | 8 | 12.78 | 32 | 16.37 | 16 | 14.10 | 34 | 40.44 | 16 | 20.90 | 29 |
| 4 | 36.95 | 7 | 13.10 | 34 | 16.21 | 12 | 14.44 | 34 | 40.60 | 17 | 21.19 | 29 |
| 5 | 36.88 | 7 | 13.44 | 34 | 16.09 | 10 | 14.78 | 37 | 40.77 | 18 | 21.48 | 29 |
| 6 | 36.81 | 7 | 13.78 | 36 | 15.99 | 11 | 15.15 | 38 | 40.95 | 19 | 21.77 | 31 |
| 7 | 36.74 | 8 | 14.14 | 38 | 15.88 | 14 | 15.53 | 39 | 41.14 | 18 | 22.08 | 32 |
| 8 | 36.66 | 10 | 14.52 | 38 | 15.74 | 20 | 15.92 | 40 | 41.32 | 18 | 22.40 | 34 |
| 9 | 36.56 | 12 | 14.90 | 39 | 15.54 | 27 | 16.32 | 41 | 41.50 | 17 | 22.74 | 36 |
| 10 | 36.44 | 14 | 15.29 | 38 | 15.27 | 35 | 16.73 | 41 | 41.67 | 15 | 23.10 | 38 |
| 11 | 36.30 | 15 | 15.67 | 37 | 14.92 | 41 | 17.14 | 39 | 41.82 | 14 | 23.48 | 37 |
| 12 | 36.15 | 17 | 16.04 | 34 | 14.51 | 46 | 17.53 | 38 | 41.96 | 12 | 23.85 | 38 |
| 13 | 35.98 | 17 | 16.38 | 33 | 14.05 | 49 | 17.91 | 36 | 42.08 | 11 | 24.23 | 36 |
| 14 | 35.81 | 17 | 16.71 | 31 | 13.56 | 48 | 18.27 | 33 | 42.19 | 10 | 24.59 | 35 |
| 15 | 35.64 | 16 | 17.02 | 29 | 13.08 | 46 | 18.60 | 32 | 42.29 | 8 | 24.94 | 33 |
| 16 | 35.48 | 15 | 17.31 | 29 | 12.62 | 42 | 18.92 | 32 | 42.37 | 9 | 25.27 | 31 |
| 17 | 35.33 | 13 | 17.60 | 28 | 12.20 | 39 | 19.24 | 31 | 42.46 | 10 | 25.58 | 30 |
| 18 | 35.20 | 13 | 17.88 | 29 | 11.81 | 36 | 19.55 | 31 | 42.56 | 12 | 25.88 | 31 |
| 19 | 35.07 | 13 | 18.17 | 30 | 11.45 | 35 | 19.86 | 32 | 42.68 | 12 | 26.19 | 31 |
| 20 | 34.94 | 14 | 18.47 | 31 | 11.10 | 37 | 20.18 | 34 | 42.80 | 12 | 26.50 | 32 |
| 21 | 34.80 | 14 | 18.78 | 33 | 10.73 | 40 | 20.52 | 36 | 42.92 | 11 | 26.82 | 34 |
| 22 | 34.66 | 16 | 19.11 | 33 | 10.33 | 45 | 20.88 | 36 | 43.03 | 11 | 27.16 | 36 |
| 23 | 34.50 | 19 | 19.44 | 33 | 9.88 | 53 | 21.24 | 36 | 43.14 | 10 | 27.52 | 38 |
| 24 | 34.31 | 20 | 19.77 | 32 | 9.35 | 61 | 21.60 | 35 | 43.24 | 8 | 27.90 | 38 |
| 25 | 34.11 | 22 | 20.09 | 30 | 8.74 | 67 | 21.95 | 34 | 43.32 | 6 | 28.28 | 39 |
| 26 | 33.89 | 23 | 20.39 | 28 | 8.07 | 71 | 22.29 | 32 | 43.38 | 5 | 28.67 | 38 |
| 27 | 33.66 | | 20.67 | | 7.36 | | 22.61 | | 43.43 | | 29.05 | |
| O. K. | $+0^s.29\cos\varphi$ | | | | $+1^s.05\cos\varphi$ | | | | $+0^s.26\cos\varphi$ | | | |
| U. K. | $-0.29\cos\varphi$ | | | | $-1.05\cos\varphi$ | | | | $-0.26\cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | 43 Hev. Cephei. $4^m.3$. AR. | | Dekl. | | α Ursae minoris. $2^m.0$. AR. | | Dekl. | | Gr. 750. $6^m.8$. AR. | | Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $0^h\ 56^m$ | | $+85°\ 47'$ | | $1^h\ 27^m$ | | $+88°\ 50'$ | | $4^h\ 8^m$ | | $+85°\ 19'$ | |
| Nov. 27 | $33^s.66$ | 22 | $20''.67$ | 27 | $67^s.36$ | 72 | $22''.61$ | 31 | $43^s.43$ | 3 | $29''.05$ | 36 |
| 28 | 33.44 | 22 | 20.94 | 24 | 66.64 | 71 | 22.92 | 29 | 43.46 | 2 | 29.41 | 35 |
| 29 | 33.22 | 21 | 21.18 | 23 | 65.93 | 68 | 23.21 | 27 | 43.48 | 3 | 29.76 | 33 |
| 30 | 33.01 | 21 | 21.41 | 23 | 65.25 | 63 | 23.48 | 27 | 43.51 | 3 | 30.09 | 31 |
| Dez. 1 | 32.80 | 19 | 21.64 | 23 | 64.62 | 58 | 23.75 | 27 | 43.54 | 4 | 30.40 | 32 |
| 2 | 32.61 | 17 | 21.87 | 24 | 64.04 | 56 | 24.02 | 27 | 43.58 | 5 | 30.72 | 31 |
| 3 | 32.44 | 18 | 22.11 | 25 | 63.48 | 56 | 24.29 | 28 | 43.63 | 5 | 31.03 | 32 |
| 4 | 32.26 | 18 | 22.36 | 27 | 62.92 | 57 | 24.57 | 31 | 43.68 | 7 | 31.35 | 34 |
| 5 | 32.08 | 20 | 22.63 | 28 | 62.35 | 61 | 24.88 | 31 | 43.75 | 6 | 31.69 | 35 |
| 6 | 31.88 | 21 | 22.91 | 27 | 61.74 | 68 | 25.19 | 32 | 43.81 | 5 | 32.04 | 37 |
| 7 | 31.67 | 24 | 23.18 | 27 | 61.06 | 75 | 25.51 | 31 | 43.86 | 3 | 32.41 | 38 |
| 8 | 31.43 | 25 | 23.45 | 26 | 60.31 | 82 | 25.82 | 31 | 43.89 | 1 | 32.79 | 38 |
| 9 | 31.18 | 27 | 23.71 | 24 | 59.49 | 87 | 26.13 | 28 | 43.90 | 1 | 33.17 | 39 |
| 10 | 30.91 | 28 | 23.95 | 22 | 58.62 | 90 | 26.41 | 27 | 43.89 | 2 | 33.56 | 37 |
| 11 | 30.63 | 27 | 24.17 | 20 | 57.72 | 91 | 26.68 | 24 | 43.87 | 3 | 33.93 | 36 |
| 12 | 30.36 | 25 | 24.37 | 18 | 56.81 | 89 | 26.92 | 23 | 43.84 | 4 | 34.29 | 33 |
| 13 | 30.11 | 25 | 24.55 | 16 | 55.92 | 86 | 27.15 | 21 | 43.80 | 3 | 34.62 | 32 |
| 14 | 29.86 | 24 | 24.71 | 16 | 55.06 | 81 | 27.36 | 20 | 43.77 | 4 | 34.94 | 30 |
| 15 | 29.62 | 23 | 24.87 | 16 | 54.25 | 77 | 27.56 | 19 | 43.73 | 3 | 35.24 | 30 |
| 16 | 29.39 | 21 | 25.03 | 16 | 53.48 | 74 | 27.75 | 21 | 43.70 | 1 | 35.54 | 29 |
| 17 | 29.18 | 23 | 25.19 | 18 | 52.74 | 74 | 27.96 | 22 | 43.69 | 2 | 35.83 | 30 |
| 18 | 28.95 | 23 | 25.37 | 18 | 52.00 | 77 | 28.18 | 23 | 43.67 | 2 | 36.13 | 32 |
| 19 | 28.72 | 24 | 25.55 | 19 | 51.23 | 82 | 28.41 | 23 | 43.65 | 2 | 36.45 | 34 |
| 20 | 28.48 | 26 | 25.74 | 19 | 50.41 | 89 | 28.64 | 24 | 43.63 | 3 | 36.79 | 35 |
| 21 | 28.22 | 29 | 25.93 | 18 | 49.52 | 96 | 28.88 | 23 | 43.60 | 6 | 37.14 | 36 |
| 22 | 27.93 | 30 | 26.11 | 17 | 48.56 | 101 | 29.11 | 22 | 43.54 | 7 | 37.50 | 36 |
| 23 | 27.63 | 30 | 26.28 | 14 | 47.55 | 106 | 29.33 | 20 | 43.47 | 8 | 37.86 | 35 |
| 24 | 27.33 | 31 | 26.42 | 13 | 46.49 | 108 | 29.53 | 18 | 43.39 | 10 | 38.21 | 33 |
| 25 | 27.02 | 30 | 26.55 | 10 | 45.41 | 107 | 29.71 | 16 | 43.29 | 12 | 38.54 | 31 |
| 26 | 26.72 | 29 | 26.65 | 9 | 44.34 | 103 | 29.87 | 14 | 43.17 | 11 | 38.85 | 30 |
| 27 | 26.43 | 27 | 26.74 | 8 | 43.31 | 99 | 30.01 | 13 | 43.06 | 10 | 39.15 | 29 |
| 28 | 26.16 | 27 | 26.82 | 8 | 42.32 | 93 | 30.14 | 12 | 42.96 | 10 | 39.44 | 26 |
| 29 | 25.89 | 25 | 26.90 | 8 | 41.39 | 89 | 30.26 | 12 | 42.86 | 8 | 39.70 | 26 |
| 30 | 25.64 | 24 | 26.98 | 9 | 40.50 | 86 | 30.38 | 14 | 42.78 | 8 | 39.96 | 27 |
| 31 | 25.40 | 25 | 27.07 | 10 | 39.64 | 87 | 30.52 | 15 | 42.70 | 8 | 40.23 | 28 |
| 32 | 25.15 | | 27.17 | | 38.77 | | 30.67 | | 42.62 | | 40.51 | |
| O. K. | $+0^s.29 \cos\varphi$ | | | | $+1^s.05 \cos\varphi$ | | | | $+0^s.26 \cos\varphi$ | | | |
| U. K. | $-0.29 \cos\varphi$ | | | | $-1.05 \cos\varphi$ | | | | $-0.26 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | 51 Hev. Cephei. $5^m.2$. | | | | 1 Hev. Draconis. $4^m.3$. | | | | ε Ursae minoris. $4^m.2$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | $6^h\ 59^m$ | | $+87^\circ\ 11'$ | | $9^h\ 24^m$ | | $+81^\circ\ 43'$ | | $16^h\ 54^m$ | | $+82^\circ\ 10'$ | |
| Jan. 1 | $31^s.68$ | 18 | $30''.98$ | 34 | $35^s.94$ | 16 | $9''.09$ | 20 | $56^s.34$ | 6 | $53''.29$ | 38 |
| 2 | 31.86 | 16 | 31.32 | 35 | 36.10 | 15 | 9.29 | 22 | 56.40 | 6 | 52.91 | 38 |
| 3 | 32.02 | 13 | 31.67 | 36 | 36.25 | 13 | 9.51 | 23 | 56.46 | 7 | 52.53 | 36 |
| 4 | 32.15 | 9 | 32.03 | 35 | 36.38 | 13 | 9.74 | 23 | 56.53 | 9 | 52.17 | 34 |
| 5 | 32.24 | 7 | 32.38 | 34 | 36.51 | 12 | 9.97 | 23 | 56.62 | 8 | 51.83 | 32 |
| 6 | 32.31 | 5 | 32.72 | 33 | 36.63 | 10 | 10.20 | 22 | 56.70 | 7 | 51.51 | 30 |
| 7 | 32.36 | 4 | 33.05 | 32 | 36.73 | 11 | 10.42 | 20 | 56.77 | 9 | 51.21 | 29 |
| 8 | 32.40 | 5 | 33.37 | 30 | 36.84 | 10 | 10.62 | 20 | 56.86 | 7 | 50.92 | 29 |
| 9 | 32.45 | 5 | 33.67 | 28 | 36.94 | 11 | 10.82 | 18 | 56.93 | 6 | 50.63 | 29 |
| 10 | 32.50 | 7 | 33.95 | 29 | 37.05 | 12 | 11.00 | 19 | 56.99 | 6 | 50.34 | 31 |
| 11 | 32.57 | 9 | 34.24 | 29 | 37.17 | 12 | 11.19 | 19 | 57.05 | 6 | 50.03 | 31 |
| 12 | 32.66 | 8 | 34.53 | 31 | 37.29 | 12 | 11.38 | 20 | 57.11 | 8 | 49.72 | 33 |
| 13 | 32.74 | 10 | 34.84 | 32 | 37.41 | 12 | 11.58 | 22 | 57.19 | 8 | 49.39 | 34 |
| 14 | 32.84 | 8 | 35.16 | 34 | 37.53 | 12 | 11.80 | 24 | 57.27 | 9 | 49.05 | 34 |
| 15 | 32.92 | 5 | 35.50 | 35 | 37.65 | 12 | 12.04 | 27 | 57.36 | 10 | 48.71 | 34 |
| 16 | 32.97 | 1 | 35.85 | 37 | 37.77 | 11 | 12.31 | 29 | 57.46 | 11 | 48.37 | 33 |
| 17 | 32.98 | — 1 | 36.22 | 36 | 37.88 | 11 | 12.60 | 29 | 57.57 | 11 | 48.04 | 30 |
| 18 | 32.97 | 5 | 36.58 | 36 | 37.99 | 9 | 12.89 | 29 | 57.68 | 12 | 47.74 | 29 |
| 19 | 32.92 | 7 | 36.94 | 33 | 38.08 | 8 | 13.18 | 29 | 57.80 | 13 | 47.45 | 26 |
| 20 | 32.85 | 8 | 37.27 | 32 | 38.16 | 7 | 13.47 | 27 | 57.93 | 12 | 47.19 | 25 |
| 21 | 32.77 | 9 | 37.59 | 31 | 38.23 | 6 | 13.74 | 27 | 58.05 | 11 | 46.94 | 23 |
| 22 | 32.68 | 9 | 37.90 | 29 | 38.29 | 6 | 14.01 | 25 | 58.16 | 11 | 46.71 | 23 |
| 23 | 32.59 | 8 | 38.19 | 28 | 38.35 | 7 | 14.26 | 24 | 58.27 | 10 | 46.48 | 23 |
| 24 | 32.51 | 7 | 38.47 | 28 | 38.42 | 8 | 14.50 | 23 | 58.37 | 10 | 46.25 | 24 |
| 25 | 32.44 | 4 | 38.75 | 29 | 38.50 | 9 | 14.73 | 25 | 58.47 | 11 | 46.01 | 27 |
| 26 | 32.40 | 4 | 39.04 | 31 | 38.59 | 8 | 14.98 | 27 | 58.58 | 11 | 45.74 | 27 |
| 27 | 32.36 | 5 | 39.35 | 32 | 38.67 | 8 | 15.25 | 27 | 58.69 | 11 | 45.47 | 28 |
| 28 | 32.31 | 6 | 39.67 | 33 | 38.75 | 9 | 15.52 | 30 | 58.80 | 13 | 45.19 | 28 |
| 29 | 32.25 | 9 | 40.00 | 35 | 38.84 | 7 | 15.82 | 31 | 58.93 | 14 | 44.91 | 26 |
| 30 | 32.16 | 12 | 40.35 | 35 | 38.91 | 7 | 16.13 | 33 | 59.07 | 15 | 44.65 | 26 |
| 31 | 32.04 | 14 | 40.70 | 33 | 38.98 | 5 | 16.46 | 33 | 59.22 | 14 | 44.39 | 23 |
| Febr. 1 | 31.90 | 17 | 41.03 | 33 | 39.03 | 4 | 16.79 | 32 | 59.36 | 15 | 44.16 | 21 |
| 2 | 31.73 | 18 | 41.36 | 31 | 39.07 | 4 | 17.11 | 31 | 59.51 | 15 | 43.95 | 19 |
| 3 | 31.55 | 20 | 41.67 | 29 | 39.11 | 3 | 17.42 | 30 | 59.66 | 14 | 43.76 | 17 |
| 4 | 31.35 | 20 | 41.96 | 27 | 39.14 | 3 | 17.72 | 28 | 59.80 | 14 | 43.59 | 16 |
| 5 | 31.15 | 18 | 42.23 | 25 | 39.17 | 3 | 18.00 | 27 | 59.94 | 13 | 43.43 | 15 |
| 6 | 30.97 | 18 | 42.48 | 25 | 39.20 | 3 | 18.27 | 26 | 60.07 | 12 | 43.28 | 17 |
| 7 | 30.79 | | 42.73 | | 39.23 | | 18.53 | | 60.19 | | 43.11 | |
| O. K. | $+ 0^s.44 \cos\varphi$ | | | | $+ 0^s.15 \cos\varphi$ | | | | $+ 0^s.16 \cos\varphi$ | | | |
| U. K. | $- 0.44 \cos\varphi$ | | | | $- 0.15 \cos\varphi$ | | | | $- 0.16 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | 51 Hev. Cephei. 5^m.2. AR. | | Dekl. | | 1 Hev. Draconis. 4^m.3. AR. | | Dekl. | | ε Ursae minoris. 4^m.2. AR. | | Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6^h 59^m | | +87° 11′ | | 9^h 24^m | | +81° 43′ | | 16^h 55^m | | +82° 10′ | |
| Febr. 7 | 30.79 | 16 | 42.73 | 25 | 39.23 | 4 | 18.53 | 25 | 0.19 | 12 | 43.11 | 18 |
| 8 | 30.63 | 15 | 42.98 | 26 | 39.27 | 4 | 18.78 | 27 | 0.31 | 13 | 42.93 | 20 |
| 9 | 30.48 | 14 | 43.24 | 27 | 39.31 | 5 | 19.05 | 28 | 0.44 | 13 | 42.73 | 20 |
| 10 | 30.34 | 16 | 43.51 | 28 | 39.36 | 4 | 19.33 | 30 | 0.57 | 14 | 42.53 | 20 |
| 11 | 30.18 | 17 | 43.79 | 29 | 39.40 | 4 | 19.63 | 31 | 0.71 | 15 | 42.33 | 20 |
| 12 | 30.01 | 20 | 44.08 | 30 | 39.44 | 3 | 19.94 | 34 | 0.86 | 16 | 42.13 | 20 |
| 13 | 29.81 | 23 | 44.38 | 31 | 39.47 | 2 | 20.28 | 35 | 1.02 | 17 | 41.93 | 17 |
| 14 | 29.58 | 26 | 44.69 | 30 | 39.49 | 1 | 20.63 | 35 | 1.19 | 17 | 41.76 | 14 |
| 15 | 29.32 | 29 | 44.99 | 28 | 39.50 | 0 | 20.98 | 33 | 1.36 | 16 | 41.62 | 12 |
| 16 | 29.03 | 31 | 45.27 | 26 | 39.50 | 0 | 21.31 | 33 | 1.52 | 17 | 41.50 | 10 |
| 17 | 28.72 | 31 | 45.53 | 23 | 39.50 | 1 | 21.64 | 30 | 1.69 | 16 | 41.40 | 9 |
| 18 | 28.41 | 31 | 45.76 | 23 | 39.49 | 2 | 21.94 | 29 | 1.85 | 16 | 41.31 | 8 |
| 19 | 28.10 | 30 | 45.99 | 21 | 39.47 | 1 | 22.23 | 29 | 2.01 | 15 | 41.23 | 8 |
| 20 | 27.80 | 29 | 46.20 | 20 | 39.46 | 2 | 22.52 | 27 | 2.16 | 15 | 41.15 | 8 |
| 21 | 27.51 | 27 | 46.40 | 20 | 39.44 | 1 | 22.79 | 27 | 2.31 | 13 | 41.07 | 9 |
| 22 | 27.24 | 25 | 46.60 | 21 | 39.43 | 0 | 23.06 | 29 | 2.44 | 15 | 40.98 | 10 |
| 23 | 26.99 | 26 | 46.81 | 22 | 39.43 | 1 | 23.35 | 29 | 2.59 | 15 | 40.88 | 11 |
| 24 | 26.73 | 26 | 47.03 | 24 | 39.44 | 1 | 23.64 | 31 | 2.74 | 16 | 40.77 | 12 |
| 25 | 26.47 | 27 | 47.27 | 24 | 39.43 | 0 | 23.95 | 32 | 2.90 | 17 | 40.65 | 11 |
| 26 | 26.20 | 31 | 47.51 | 25 | 39.43 | 1 | 24.27 | 33 | 3.07 | 17 | 40.54 | 10 |
| 27 | 25.89 | 33 | 47.76 | 25 | 39.42 | 3 | 24.60 | 34 | 3.24 | 18 | 40.44 | 8 |
| 28 | 25.56 | 36 | 48.01 | 23 | 39.39 | 3 | 24.94 | 34 | 3.42 | 18 | 40.36 | 5 |
| März 1 | 25.20 | 37 | 48.24 | 21 | 39.36 | 5 | 25.28 | 32 | 3.60 | 18 | 40.31 | 2 |
| 2 | 24.83 | 38 | 48.45 | 18 | 39.31 | 5 | 25.60 | 30 | 3.78 | 17 | 40.29 | 0 |
| 3 | 24.45 | 38 | 48.63 | 16 | 39.26 | 6 | 25.90 | 28 | 3.95 | 16 | 40.29 | 1 |
| 4 | 24.07 | 38 | 48.79 | 15 | 39.20 | 5 | 26.18 | 26 | 4.11 | 15 | 40.30 | 0 |
| 5 | 23.69 | 36 | 48.94 | 13 | 39.15 | 5 | 26.44 | 26 | 4.26 | 14 | 40.30 | 1 |
| 6 | 23.33 | 34 | 49.07 | 13 | 39.10 | 5 | 26.70 | 24 | 4.40 | 14 | 40.31 | 0 |
| 7 | 22.99 | 32 | 49.20 | 13 | 39.05 | 4 | 26.94 | 24 | 4.54 | 14 | 40.31 | 1 |
| 8 | 22.67 | 31 | 49.33 | 14 | 39.01 | 4 | 27.18 | 25 | 4.68 | 14 | 40.30 | 2 |
| 9 | 22.36 | 31 | 49.47 | 15 | 38.97 | 3 | 27.43 | 27 | 4.82 | 15 | 40.28 | 3 |
| 10 | 22.05 | 32 | 49.62 | 17 | 38.94 | 4 | 27.70 | 28 | 4.97 | 17 | 40.25 | 3 |
| 11 | 21.73 | 35 | 49.79 | 17 | 38.90 | 4 | 27.98 | 29 | 5.14 | 17 | 40.22 | 1 |
| 12 | 21.38 | 37 | 49.96 | 18 | 38.86 | 5 | 28.27 | 30 | 5.31 | 17 | 40.21 | 0 |
| 13 | 21.01 | 40 | 50.14 | 16 | 38.81 | 6 | 28.57 | 31 | 5.48 | 18 | 40.21 | 3 |
| 14 | 20.61 | 42 | 50.30 | 15 | 38.75 | 8 | 28.88 | 30 | 5.66 | 17 | 40.24 | 4 |
| 15 | 20.19 | 44 | 50.45 | 13 | 38.67 | 9 | 29.18 | 28 | 5.83 | 17 | 40.28 | 7 |
| 16 | 19.75 | | 50.58 | | 38.58 | | 29.46 | | 6.00 | | 40.35 | |
| O. K. | + 0^s.44 cos φ | | | | + 0^s.15 cos φ | | | | + 0^s.16 cos φ | | | |
| U. K. | — 0 .44 cos φ | | | | — 0 .15 cos φ | | | | — 0 .16 cos φ | | | |

## Obere Kulmination.

| 1911 | 51 Hev. Cephei. $5^m.2$. | | | | 1 Hev. Draconis. $4^m.3$. | | | | ε Ursae minoris. $4^m.2$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | $6^h\ 59^m$ | | +87° 11′ | | $9^h\ 24^m$ | | +81° 43′ | | $16^h\ 55^m$ | | +82° 10′ | |
| März 16 | $19^s.75$ | 44 | 50″.58 | 11 | $38^s.58$ | 9 | 29″.46 | 27 | $6^s.00$ | 17 | 40″.35 | 10 |
| 17 | 19.31 | 44 | 50.69 | 8 | 38.49 | 9 | 29.73 | 24 | 6.17 | 16 | 40.45 | 11 |
| 18 | 18.87 | 43 | 50.77 | 7 | 38.40 | 10 | 29.97 | 23 | 6.33 | 15 | 40.56 | 11 |
| 19 | 18.44 | 41 | 50.84 | 5 | 38.30 | 9 | 30.20 | 22 | 6.48 | 14 | 40.67 | 10 |
| 20 | 18.03 | 39 | 50.89 | 6 | 38.21 | 8 | 30.42 | 21 | 6.62 | 14 | 40.77 | 9 |
| 21 | 17.64 | 38 | 50.95 | 6 | 38.13 | 7 | 30.63 | 21 | 6.76 | 14 | 40.86 | 8 |
| 22 | 17.26 | 37 | 51.01 | 7 | 38.06 | 8 | 30.84 | 22 | 6.90 | 14 | 40.94 | 7 |
| 23 | 16.89 | 35 | 51.08 | 8 | 37.98 | 7 | 31.06 | 24 | 7.04 | 15 | 41.01 | 6 |
| 24 | 16.54 | 37 | 51.16 | 9 | 37.91 | 8 | 31.30 | 25 | 7.19 | 15 | 41.07 | 6 |
| 25 | 16.17 | 39 | 51.25 | 10 | 37.83 | 7 | 31.55 | 25 | 7.34 | 16 | 41.13 | 8 |
| 26 | 15.78 | 41 | 51.35 | 9 | 37.76 | 9 | 31.80 | 26 | 7.50 | 17 | 41.21 | 10 |
| 27 | 15.37 | 43 | 51.44 | 8 | 37.67 | 9 | 32.06 | 25 | 7.67 | 17 | 41.31 | 11 |
| 28 | 14.94 | 45 | 51.52 | 6 | 37.58 | 11 | 32.31 | 24 | 7.84 | 15 | 41.42 | 14 |
| 29 | 14.49 | 45 | 51.58 | 4 | 37.47 | 11 | 32.55 | 23 | 7.99 | 15 | 41.56 | 16 |
| 30 | 14.04 | 46 | 51.62 | 1 | 37.36 | 12 | 32.78 | 20 | 8.14 | 15 | 41.72 | 17 |
| 31 | 13.58 | 45 | 51.63 | 1 | 37.24 | 12 | 32.98 | 18 | 8.29 | 13 | 41.89 | 18 |
| April 1 | 13.13 | 43 | 51.62 | 2 | 37.12 | 12 | 33.16 | 15 | 8.42 | 13 | 42.07 | 18 |
| 2 | 12.70 | 41 | 51.60 | 3 | 37.00 | 10 | 33.31 | 15 | 8.55 | 12 | 42.25 | 18 |
| 3 | 12.29 | 39 | 51.57 | 3 | 36.90 | 10 | 33.46 | 15 | 8.67 | 12 | 42.43 | 16 |
| 4 | 11.90 | 36 | 51.54 | 3 | 36.80 | 10 | 33.61 | 15 | 8.79 | 11 | 42.59 | 16 |
| 5 | 11.54 | 35 | 51.51 | 1 | 36.70 | 10 | 33.76 | 16 | 8.90 | 12 | 42.75 | 14 |
| 6 | 11.19 | 36 | 51.50 | 1 | 36.60 | 9 | 33.92 | 17 | 9.02 | 12 | 42.89 | 14 |
| 7 | 10.83 | 37 | 51.49 | 0 | 36.51 | 9 | 34.09 | 18 | 9.14 | 13 | 43.03 | 15 |
| 8 | 10.46 | 38 | 51.49 | 1 | 36.42 | 11 | 34.27 | 19 | 9.27 | 14 | 43.18 | 16 |
| 9 | 10.08 | 41 | 51.50 | 1 | 36.31 | 11 | 34.46 | 20 | 9.41 | 14 | 43.34 | 18 |
| 10 | 9.67 | 43 | 51.51 | 1 | 36.20 | 13 | 34.66 | 18 | 9.55 | 14 | 43.52 | 20 |
| 11 | 9.24 | 45 | 51.50 | 2 | 36.07 | 13 | 34.84 | 18 | 9.69 | 14 | 43.72 | 22 |
| 12 | 8.79 | 46 | 51.48 | 5 | 35.94 | 14 | 35.02 | 16 | 9.83 | 13 | 43.94 | 24 |
| 13 | 8.33 | 45 | 51.43 | 7 | 35.80 | 13 | 35.18 | 13 | 9.96 | 12 | 44.18 | 25 |
| 14 | 7.88 | 44 | 51.36 | 9 | 35.67 | 14 | 35.31 | 11 | 10.08 | 12 | 44.43 | 26 |
| 15 | 7.44 | 42 | 51.27 | 10 | 35.53 | 13 | 35.42 | 9 | 10.20 | 10 | 44.69 | 25 |
| 16 | 7.02 | 39 | 51.17 | 12 | 35.40 | 12 | 35.51 | 9 | 10.30 | 10 | 44.94 | 24 |
| 17 | 6.63 | 37 | 51.05 | 11 | 35.28 | 12 | 35.60 | 7 | 10.40 | 9 | 45.18 | 22 |
| 18 | 6.26 | 35 | 50.94 | 9 | 35.16 | 12 | 35.67 | 9 | 10.49 | 10 | 45.40 | 22 |
| 19 | 5.91 | 34 | 50.85 | 8 | 35.04 | 12 | 35.76 | 10 | 10.59 | 9 | 45.62 | 21 |
| 20 | 5.57 | 34 | 50.77 | 8 | 34.92 | 11 | 35.86 | 10 | 10.68 | 10 | 45.83 | 20 |
| 21 | 5.23 | 35 | 50.69 | 7 | 34.81 | 11 | 35.96 | 11 | 10.78 | 11 | 46.03 | 21 |
| 22 | 4.88 | | 50.62 | | 34.70 | | 36.07 | | 10.89 | | 46.24 | |
| O. K. | $+0^s.44 \cos\varphi$ | | | | $+0^s.15 \cos\varphi$ | | | | $+0^s.16 \cos\varphi$ | | | |
| U. K. | $-0.44 \cos\varphi$ | | | | $-0.15 \cos\varphi$ | | | | $-0.16 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | 51 Hev. Cephei. $5^m.2$. | | | | 1 Hev. Draconis. $4^m.3$. | | | | ε Ursae minoris. $4^m.2$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | $6^h\ 58^m$ | | $+87°\ 11'$ | | $9^h\ 24^m$ | | $+81°\ 43'$ | | $16^h\ 55^m$ | | $+82°\ 10'$ | |
| April 22 | 64.88 | 37 | 50.62 | 7 | 34.70 | 12 | 36.07 | 13 | 10.89 | 11 | 46.24 | 22 |
| 23 | 64.51 | 38 | 50.55 | 7 | 34.58 | 13 | 36.20 | 12 | 11.00 | 12 | 46.46 | 24 |
| 24 | 64.13 | 40 | 50.48 | 9 | 34.45 | 14 | 36.32 | 10 | 11.12 | 11 | 46.70 | 27 |
| 25 | 63.73 | 41 | 50.39 | 12 | 34.31 | 14 | 36.42 | 9 | 11.23 | 10 | 46.97 | 28 |
| 26 | 63.32 | 40 | 50.27 | 14 | 34.17 | 14 | 36.51 | 7 | 11.33 | 10 | 47.25 | 30 |
| 27 | 62.92 | 40 | 50.13 | 16 | 34.03 | 15 | 36.58 | 5 | 11.43 | 8 | 47.55 | 31 |
| 28 | 62.52 | 38 | 49.97 | 18 | 33.88 | 14 | 36.63 | 2 | 11.51 | 7 | 47.86 | 30 |
| 29 | 62.14 | 35 | 49.79 | 18 | 33.74 | 14 | 36.65 | 1 | 11.58 | 6 | 48.16 | 30 |
| 30 | 61.79 | 32 | 49.61 | 19 | 33.60 | 13 | 36.66 | 0 | 11.64 | 6 | 48.46 | 29 |
| Mai 1 | 61.47 | 29 | 49.42 | 18 | 33.47 | 12 | 36.66 | 1 | 11.70 | 5 | 48.75 | 26 |
| 2 | 61.18 | 29 | 49.24 | 17 | 33.35 | 11 | 36.65 | 0 | 11.75 | 5 | 49.01 | 25 |
| 3 | 60.89 | 27 | 49.07 | 17 | 33.24 | 12 | 36.65 | 1 | 11.80 | 6 | 49.26 | 25 |
| 4 | 60.62 | 28 | 48.90 | 15 | 33.12 | 11 | 36.66 | 3 | 11.86 | 7 | 49.51 | 24 |
| 5 | 60.34 | 29 | 48.75 | 14 | 33.01 | 11 | 36.69 | 4 | 11.93 | 7 | 49.75 | 26 |
| 6 | 60.05 | 31 | 48.61 | 14 | 32.90 | 12 | 36.73 | 3 | 12.00 | 7 | 50.01 | 26 |
| 7 | 59.74 | 33 | 48.47 | 15 | 32.78 | 13 | 36.76 | 4 | 12.07 | 8 | 50.27 | 29 |
| 8 | 59.41 | 34 | 48.32 | 17 | 32.65 | 14 | 36.80 | 3 | 12.15 | 8 | 50.56 | 31 |
| 9 | 59.07 | 35 | 48.15 | 18 | 32.51 | 15 | 36.83 | 1 | 12.23 | 6 | 50.87 | 32 |
| 10 | 58.72 | 34 | 47.97 | 20 | 32.36 | 15 | 36.84 | 1 | 12.29 | 6 | 51.19 | 34 |
| 11 | 58.38 | 34 | 47.77 | 23 | 32.21 | 15 | 36.83 | 3 | 12.35 | 5 | 51.53 | 35 |
| 12 | 58.04 | 31 | 47.54 | 24 | 32.06 | 14 | 36.80 | 6 | 12.40 | 4 | 51.88 | 34 |
| 13 | 57.73 | 28 | 47.30 | 25 | 31.92 | 13 | 36.74 | 6 | 12.44 | 3 | 52.22 | 32 |
| 14 | 57.45 | 26 | 47.05 | 24 | 31.79 | 13 | 36.68 | 7 | 12.47 | 3 | 52.54 | 32 |
| 15 | 57.19 | 24 | 46.81 | 24 | 31.66 | 12 | 36.61 | 8 | 12.50 | 2 | 52.86 | 30 |
| 16 | 56.95 | 21 | 46.57 | 22 | 31.54 | 12 | 36.53 | 6 | 12.52 | 3 | 53.16 | 28 |
| 17 | 56.74 | 21 | 46.35 | 21 | 31.42 | 11 | 36.47 | 6 | 12.55 | 2 | 53.44 | 28 |
| 18 | 56.53 | 21 | 46.14 | 20 | 31.31 | 11 | 36.41 | 4 | 12.57 | 4 | 53.72 | 28 |
| 19 | 56.32 | 22 | 45.94 | 20 | 31.20 | 10 | 36.37 | 4 | 12.61 | 4 | 54.00 | 28 |
| 20 | 56.10 | 24 | 45.74 | 20 | 31.10 | 12 | 36.33 | 3 | 12.65 | 3 | 54.28 | 29 |
| 21 | 55.86 | 25 | 45.54 | 20 | 30.98 | 12 | 36.30 | 4 | 12.68 | 4 | 54.57 | 31 |
| 22 | 55.61 | 26 | 45.34 | 22 | 30.86 | 13 | 36.26 | 6 | 12.72 | 4 | 54.88 | 33 |
| 23 | 55.35 | 26 | 45.12 | 25 | 30.73 | 14 | 36.20 | 8 | 12.76 | 2 | 55.21 | 35 |
| 24 | 55.09 | 24 | 44.87 | 27 | 30.59 | 13 | 36.12 | 10 | 12.78 | 1 | 55.56 | 35 |
| 25 | 54.85 | 23 | 44.60 | 28 | 30.46 | 14 | 36.02 | 12 | 12.79 | 0 | 55.91 | 36 |
| 26 | 54.62 | 20 | 44.32 | 30 | 30.32 | 13 | 35.90 | 14 | 12.79 | 1 | 56.27 | 34 |
| 27 | 54.42 | 18 | 44.02 | 30 | 30.19 | 11 | 35.76 | 16 | 12.78 | 1 | 56.61 | 33 |
| 28 | 54.24 | 14 | 43.72 | 30 | 30.08 | 11 | 35.60 | 16 | 12.77 | 2 | 56.94 | 31 |
| 29 | 54.10 | | 43.42 | | 29.97 | | 35.44 | | 12.75 | | 57.25 | |
| O. K. | $+ 0^s.44 \cos \varphi$ | | | | $+ 0^s.15 \cos \varphi$ | | | | $+ 0^s.16 \cos \varphi$ | | | |
| U. K. | $- 0.44 \cos \varphi$ | | | | $- 0.15 \cos \varphi$ | | | | $- 0.16 \cos \varphi$ | | | |

## Obere Kulmination.

| 1911 | 51 Hev. Cephei. $5^m.2$. AR. | Diff. | Dekl. | Diff. | 1 Hev. Draconis. $4^m.3$. AR. | Diff. | Dekl. | Diff. | ε Ursae minoris. $4^m.2$. AR. | Diff. | Dekl. | Diff. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $6^h\ 58^m$ | | $+87°\ 11'$ | | $9^h\ 24^m$ | | $+81°\ 43'$ | | $16^h\ 55^m$ | | $+82°\ 10'$ | |
| | s | | " | | s | | " | | s | | " | |
| Mai 29 | 54.10 | 12 | 43.42 | 29 | 29.97 | 10 | 35.44 | 15 | 12.75 | 2 | 57.25 | 30 |
| 30 | 53.98 | 11 | 43.13 | 27 | 29.87 | 9 | 35.29 | 14 | 12.73 | 2 | 57.55 | 29 |
| 31 | 53.87 | 10 | 42.86 | 26 | 29.78 | 9 | 35.15 | 13 | 12.71 | 2 | 57.84 | 27 |
| Juni 1 | 53.77 | 11 | 42.60 | 24 | 29.69 | 10 | 35.02 | 12 | 12.69 | 0 | 58.11 | 28 |
| 2 | 53.66 | 13 | 42.36 | 24 | 29.59 | 10 | 34.90 | 11 | 12.69 | 0 | 58.39 | 29 |
| 3 | 53.53 | 15 | 42.12 | 24 | 29.49 | 10 | 34.79 | 11 | 12.69 | 1 | 58.68 | 30 |
| 4 | 53.38 | 16 | 41.88 | 25 | 29.39 | 12 | 34.68 | 12 | 12.68 | 0 | 58.98 | 31 |
| 5 | 53.22 | 17 | 41.63 | 27 | 29.27 | 12 | 34.56 | 13 | 12.68 | 0 | 59.29 | 33 |
| 6 | 53.05 | 17 | 41.36 | 29 | 29.15 | 12 | 34.43 | 16 | 12.68 | 1 | 59.62 | 35 |
| 7 | 52.88 | 16 | 41.07 | 31 | 29.03 | 12 | 34.27 | 17 | 12.67 | 3 | 59.97 | 35 |
| 8 | 52.72 | 13 | 40.76 | 32 | 28.91 | 11 | 34.10 | 19 | 12.64 | 3 | 60.32 | 35 |
| 9 | 52.59 | 10 | 40.44 | 32 | 28.80 | 11 | 33.91 | 21 | 12.61 | 5 | 60.67 | 34 |
| 10 | 52.49 | 8 | 40.12 | 33 | 28.69 | 10 | 33.70 | 21 | 12.56 | 4 | 61.01 | 33 |
| 11 | 52.41 | 4 | 39.79 | 32 | 28.59 | 9 | 33.49 | 22 | 12.52 | 5 | 61.34 | 30 |
| 12 | 52.37 | 3 | 39.47 | 31 | 28.50 | 8 | 33.27 | 21 | 12.47 | 5 | 61.64 | 28 |
| 13 | 52.34 | 2 | 39.16 | 29 | 28.42 | 8 | 33.06 | 19 | 12.42 | 6 | 61.92 | 27 |
| 14 | 52.32 | 1 | 38.87 | 28 | 28.34 | 8 | 32.87 | 19 | 12.36 | 5 | 62.19 | 26 |
| 15 | 52.31 | 2 | 38.59 | 26 | 28.26 | 8 | 32.68 | 18 | 12.31 | 4 | 62.45 | 27 |
| 16 | 52.29 | 4 | 38.33 | 27 | 28.18 | 8 | 32.50 | 17 | 12.27 | 4 | 62.72 | 27 |
| 17 | 52.25 | 5 | 38.06 | 27 | 28.10 | 8 | 32.33 | 17 | 12.23 | 4 | 62.99 | 29 |
| 18 | 52.20 | 6 | 37.79 | 28 | 28.02 | 9 | 32.16 | 18 | 12.19 | 4 | 63.28 | 31 |
| 19 | 52.14 | 7 | 37.51 | 29 | 27.93 | 9 | 31.98 | 20 | 12.15 | 5 | 63.59 | 31 |
| 20 | 52.07 | 5 | 37.22 | 32 | 27.84 | 10 | 31.78 | 22 | 12.10 | 5 | 63.90 | 33 |
| 21 | 52.02 | 3 | 36.90 | 34 | 27.74 | 9 | 31.56 | 25 | 12.05 | 7 | 64.23 | 33 |
| 22 | 51.99 | 1 | 36.56 | 35 | 27.65 | 8 | 31.31 | 26 | 11.98 | 8 | 64.56 | 32 |
| 23 | 51.98 | — 2 | 36.21 | 35 | 27.57 | 9 | 31.05 | 27 | 11.90 | 9 | 64.88 | 30 |
| 24 | 52.00 | 5 | 35.86 | 34 | 27.48 | 7 | 30.78 | 28 | 11.81 | 9 | 65.18 | 29 |
| 25 | 52.05 | 7 | 35.52 | 34 | 27.41 | 6 | 30.50 | 29 | 11.72 | 9 | 65.47 | 26 |
| 26 | 52.12 | 10 | 35.18 | 32 | 27.35 | 5 | 30.21 | 27 | 11.63 | 10 | 65.73 | 26 |
| 27 | 52.22 | 11 | 34.86 | 30 | 27.30 | 5 | 29.94 | 25 | 11.53 | 9 | 65.99 | 24 |
| 28 | 52.33 | 9 | 34.56 | 30 | 27.25 | 5 | 29.69 | 24 | 11.44 | 8 | 66.23 | 23 |
| 29 | 52.42 | 9 | 34.26 | 27 | 27.20 | 5 | 29.45 | 24 | 11.36 | 8 | 66.46 | 23 |
| 30 | 52.51 | 7 | 33.99 | 27 | 27.15 | 5 | 29.21 | 22 | 11.28 | 7 | 66.69 | 25 |
| Juli 1 | 52.58 | 6 | 33.72 | 28 | 27.10 | 7 | 28.99 | 23 | 11.21 | 8 | 66.94 | 26 |
| 2 | 52.64 | 4 | 33.44 | 30 | 27.03 | 7 | 28.76 | 24 | 11.13 | 7 | 67.20 | 27 |
| 3 | 52.68 | 3 | 33.14 | 31 | 26.96 | 6 | 28.52 | 26 | 11.06 | 8 | 67.47 | 29 |
| 4 | 52.71 | 5 | 32.83 | 32 | 26.90 | 7 | 28.26 | 28 | 10.98 | 9 | 67.76 | 29 |
| 5 | 52.76 | | 32.51 | | 26.83 | | 27.98 | | 10.89 | | 68.05 | |
| O. K. | $+0^s.44\cos\varphi$ | | | | $+0^s.15\cos\varphi$ | | | | $+0^s.16\cos\varphi$ | | | |
| U. K. | $-0.44\cos\varphi$ | | | | $-0.15\cos\varphi$ | | | | $-0.16\cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | | 51 Hev. Cephei. $5^m.2$. | | | | 1 Hev. Draconis. $4^m.3$. | | | | ε Ursae minoris. $4^m.2$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | | $6^h\ 58^m$ | | $+87°\ 11'$ | | $9^h\ 24^m$ | | $+81°\ 43'$ | | $16^h\ 55^m$ | | $+82°\ 11'$ | |
| Juli | 5 | 52.76 | 6 | 32.51 | 34 | 26.83 | 7 | 27.98 | 29 | 10.89 | 10 | 8.05 | 29 |
| | 6 | 52.82 | 9 | 32.17 | 35 | 26.76 | 6 | 27.69 | 31 | 10.79 | 11 | 8.34 | 28 |
| | | 52.91 | 12 | 31.82 | 34 | | | | | | | | |
| | 7 | 53.03 | 15 | 31.48 | 34 | 26.70 | 6 | 27.38 | 31 | 10.68 | 11 | 8.62 | 27 |
| | 8 | 53.18 | 18 | 31.14 | 33 | 26.64 | 4 | 27.07 | 32 | 10.57 | 13 | 8.89 | 25 |
| | 9 | 53.36 | 18 | 30.81 | 32 | 26.60 | 3 | 26.75 | 31 | 10.44 | 12 | 9.14 | 22 |
| | 10 | 53.54 | 19 | 30.49 | 29 | 26.57 | 2 | 26.44 | 30 | 10.32 | 12 | 9.36 | 20 |
| | 11 | 53.73 | 19 | 30.20 | 28 | 26.55 | 3 | 26.14 | 29 | 10.20 | 11 | 9.56 | 20 |
| | 12 | 53.92 | 18 | 29.92 | 27 | 26.52 | 2 | 25.85 | 27 | 10.09 | 10 | 9.76 | 19 |
| | 13 | 54.10 | 16 | 29.65 | 26 | 26.50 | 2 | 25.58 | 27 | 9.99 | 11 | 9.95 | 20 |
| | 14 | 54.26 | 15 | 29.39 | 28 | 26.48 | 3 | 25.31 | 26 | 9.88 | 10 | 10.15 | 20 |
| | 15 | 54.41 | 15 | 29.11 | 29 | 26.45 | 3 | 25.05 | 27 | 9.78 | 10 | 10.35 | 22 |
| | 16 | 54.56 | 14 | 28.82 | 31 | 26.42 | 4 | 24.78 | 29 | 9.68 | 11 | 10.57 | 23 |
| | 17 | 54.70 | 16 | 28.51 | 32 | 26.38 | 4 | 24.49 | 30 | 9.57 | 11 | 10.80 | 24 |
| | 18 | 54.86 | 18 | 28.19 | 33 | 26.34 | 4 | 24.19 | 32 | 9.46 | 13 | 11.04 | 25 |
| | 19 | 55.04 | 21 | 27.86 | 34 | 26.30 | 3 | 23.87 | 33 | 9.33 | 14 | 11.29 | 24 |
| | 20 | 55.25 | 24 | 27.52 | 34 | 26.27 | 3 | 23.54 | 35 | 9.19 | 15 | 11.53 | 22 |
| | 21 | 55.49 | 27 | 27.18 | 33 | 26.24 | 2 | 23.19 | 36 | 9.04 | 15 | 11.75 | 21 |
| | 22 | 55.76 | 30 | 26.85 | 32 | 26.22 | 0 | 22.83 | 36 | 8.89 | 16 | 11.96 | 19 |
| | 23 | 56.06 | 30 | 26.53 | 29 | 26.22 | 0 | 22.47 | 35 | 8.73 | 15 | 12.15 | 16 |
| | 24 | 56.36 | 29 | 26.24 | 27 | 26.22 | 1 | 22.12 | 33 | 8.58 | 15 | 12.31 | 14 |
| | 25 | 56.65 | 29 | 25.97 | 26 | 26.23 | 2 | 21.79 | 32 | 8.43 | 15 | 12.45 | 14 |
| | 26 | 56.94 | 27 | 25.71 | 25 | 26.25 | 1 | 21.47 | 31 | 8.28 | 13 | 12.59 | 14 |
| | 27 | 57.21 | 26 | 25.46 | 26 | 26.26 | 0 | 21.16 | 29 | 8.15 | 13 | 12.73 | 14 |
| | 28 | 57.47 | 24 | 25.20 | 26 | 26.26 | 1 | 20.87 | 30 | 8.02 | 13 | 12.87 | 15 |
| | 29 | 57.71 | 23 | 24.94 | 27 | 26.27 — | 1 | 20.57 | 30 | 7.89 | 13 | 13.02 | 16 |
| | 30 | 57.94 | 24 | 24.67 | 28 | 26.26 | 1 | 20.27 | 31 | 7.76 | 13 | 13.18 | 19 |
| | 31 | 58.18 | 24 | 24.39 | 30 | 26.25 | 1 | 19.96 | 32 | 7.63 | 14 | 13.37 | 19 |
| Aug. | 1 | 58.42 | 27 | 24.09 | 32 | 26.24 | 1 | 19.64 | 35 | 7.49 | 15 | 13.56 | 19 |
| | 2 | 58.69 | 30 | 23.77 | 30 | 26.23 | 1 | 19.29 | 36 | 7.34 | 16 | 13.75 | 18 |
| | 3 | 58.99 | 32 | 23.47 | 30 | 26.22 — | 1 | 18.93 | 37 | 7.18 | 16 | 13.93 | 17 |
| | 4 | 59.31 | 35 | 23.17 | 30 | 26.23 | 2 | 18.56 | 37 | 7.02 | 16 | 14.10 | 14 |
| | 5 | 59.66 | 36 | 22.87 | 27 | 26.25 | 3 | 18.19 | 36 | 6.86 | 18 | 14.24 | 12 |
| | 6 | 60.02 | 38 | 22.60 | 26 | 26.28 | 3 | 17.83 | 35 | 6.68 | 17 | 14.36 | 11 |
| | 7 | 60.40 | 37 | 22.34 | 24 | 26.31 | 4 | 17.48 | 34 | 6.51 | 16 | 14.47 | 8 |
| | 8 | 60.77 | 36 | 22.10 | 22 | 26.35 | 4 | 17.14 | 32 | 6.35 | 16 | 14.55 | 7 |
| | 9 | 61.13 | 35 | 21.88 | 22 | 26.39 | 4 | 16.82 | 31 | 6.19 | 15 | 14.62 | 8 |
| | 10 | 61.48 | | 21.66 | | 26.43 | | 16.51 | | 6.04 | | 14.70 | |
| O. K. | | $+0^s.43 \cos\varphi$ | | | | $+0^s.15 \cos\varphi$ | | | | $+0^s.16 \cos\varphi$ | | | |
| U. K. | | $-0.43 \cos\varphi$ | | | | $-0.15 \cos\varphi$ | | | | $-0.16 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | 51 Hev. Cephei. $5^m.2$. AR. | | Dekl. | | 1 Hev. Draconis. $4^m.3$. AR. | | Dekl. | | ε Ursae minoris. $4^m.2$. AR. | | Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $6^h\ 59^m$ | | $+87°\ 11'$ | | $9^h\ 24^m$ | | $+81°\ 43'$ | | $16^h\ 54^m$ | | $+82°\ 11'$ | |
| Aug. 10 | $1^s.48$ | 33 | $21''.66$ | 22 | $26^s.43$ | 4 | $16''.51$ | 31 | $66^s.04$ | 14 | $14''.70$ | 8 |
| 11 | 1.81 | 32 | 21.44 | 23 | 26.47 | 3 | 16.20 | 31 | 65.90 | 15 | 14.78 | 9 |
| 12 | 2.13 | 31 | 21.21 | 24 | {26.50 / 26.52} | 2 / 3 | {15.89 / 15.58} | 31 / 33 | 65.75 | 15 | 14.87 | 11 |
| 13 | 2.44 | 32 | 20.97 | 26 | 26.55 | 2 | 15.25 | 35 | 65.60 | 15 | 14.98 | 12 |
| 14 | 2.76 | 34 | 20.71 | 27 | 26.57 | 2 | 14.90 | 37 | 65.45 | 16 | 15.10 | 13 |
| 15 | 3.10 | 37 | 20.44 | 28 | 26.59 | 3 | 14.53 | 38 | 65.29 | 18 | 15.23 | 12 |
| 16 | 3.47 | 40 | 20.16 | 28 | 26.62 | 4 | 14.15 | 39 | 65.11 | 18 | 15.35 | 11 |
| 17 | 3.87 | 42 | 19.88 | 27 | 26.66 | 5 | 13.76 | 39 | 64.93 | 19 | 15.46 | 9 |
| 18 | 4.29 | 45 | 19.61 | 26 | 26.71 | 6 | 13.37 | 37 | 64.74 | 19 | 15.55 | 7 |
| 19 | 4.74 | 46 | 19.35 | 24 | 26.77 | 7 | 13.00 | 37 | 64.55 | 19 | 15.62 | 4 |
| 20 | 5.20 | 45 | 19.11 | 21 | 26.84 | 7 | 12.63 | 34 | 64.36 | 18 | 15.66 | 2 |
| 21 | 5.65 | 46 | 18.90 | 19 | 26.91 | 8 | 12.29 | 33 | 64.18 | 18 | 15.68 | 1 |
| 22 | 6.11 | 44 | 18.71 | 18 | 26.99 | 7 | 11.96 | 31 | 64.00 | 17 | 15.69 | 1 |
| 23 | 6.55 | 42 | 18.53 | 19 | 27.06 | 7 | 11.65 | 31 | 63.83 | 17 | 15.70 | 1 |
| 24 | 6.97 | 40 | 18.34 | 18 | 27.13 | 5 | 11.34 | 31 | 63.66 | 16 | 15.71 | 2 |
| 25 | 7.37 | 39 | 18.16 | 19 | 27.18 | 6 | 11.03 | 32 | 63.50 | 15 | 15.73 | 3 |
| 26 | 7.76 | 38 | 17.97 | 21 | 27.24 | 5 | 10.71 | 33 | 63.35 | 16 | 15.76 | 5 |
| 27 | 8.14 | 38 | 17.76 | 21 | 27.29 | 6 | 10.38 | 34 | 63.19 | 17 | 15.81 | 5 |
| 28 | 8.52 | 40 | 17.55 | 23 | 27.35 | 5 | 10.04 | 36 | 63.02 | 18 | 15.86 | 6 |
| 29 | 8.92 | 43 | 17.32 | 24 | 27.40 | 6 | 9.68 | 36 | 62.84 | 18 | 15.92 | 4 |
| 30 | 9.35 | 46 | 17.08 | 23 | 27.46 | 7 | 9.32 | 37 | 62.66 | 19 | 15.96 | 4 |
| 31 | 9.81 | 47 | 16.85 | 21 | 27.53 | 8 | 8.95 | 37 | 62.47 | 20 | 16.00 | 2 |
| Sept. 1 | 10.28 | 50 | 16.64 | 19 | 27.61 | 9 | 8.58 | 36 | 62.27 | 19 | 16.02 | 0 |
| 2 | 10.78 | 50 | 16.45 | 18 | 27.70 | 9 | 8.22 | 34 | 62.08 | 19 | 16.02 | 2 |
| 3 | 11.28 | 51 | 16.27 | 16 | 27.79 | 10 | 7.88 | 32 | 61.89 | 19 | 16.00 | 4 |
| 4 | 11.79 | 50 | 16.11 | 13 | 27.89 | 10 | 7.56 | 31 | 61.70 | 18 | 15.96 | 5 |
| 5 | 12.29 | 47 | 15.98 | 13 | 27.99 | 10 | 7.25 | 30 | 61.52 | 17 | 15.91 | 6 |
| 6 | 12.76 | 46 | 15.85 | 13 | 28.09 | 9 | 6.95 | 29 | 61.35 | 17 | 15.85 | 6 |
| 7 | 13.22 | 45 | 15.72 | 13 | 28.18 | 8 | 6.66 | 30 | 61.18 | 16 | 15.79 | 4 |
| 8 | 13.67 | 45 | 15.59 | 15 | 28.26 | 8 | 6.36 | 31 | 61.02 | 16 | 15.75 | 3 |
| 9 | 14.12 | 44 | 15.44 | 16 | 28.34 | 9 | 6.05 | 32 | 60.86 | 17 | 15.72 | 2 |
| 10 | 14.56 | 45 | 15.28 | 17 | 28.43 | 8 | 5.73 | 33 | 60.69 | 17 | 15.70 | 1 |
| 11 | 15.01 | 47 | 15.11 | 18 | 28.51 | 9 | 5.40 | 35 | 60.52 | 18 | 15.69 | 1 |
| 12 | 15.48 | 49 | 14.93 | 18 | 28.60 | 9 | 5.05 | 36 | 60.34 | 19 | 15.68 | 3 |
| 13 | 15.97 | 52 | 14.75 | 18 | 28.69 | 11 | 4.69 | 36 | 60.15 | 20 | 15.65 | 3 |
| 14 | 16.49 | 54 | 14.57 | 16 | 28.80 | 12 | 4.33 | 36 | 59.95 | 20 | 15.62 | 5 |
| 15 | 17.03 | | 14.41 | | 28.92 | | 3.97 | | 59.75 | | 15.57 | |
| O. K. | $+0^s.43\cos\varphi$ | | | | $+0^s.15\cos\varphi$ | | | | $+0^s.16\cos\varphi$ | | | |
| U. K. | $-0.43\cos\varphi$ | | | | $-0.15\cos\varphi$ | | | | $-0.16\cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | 51 Hev. Cephei. 5ᵐ.2. AR. | | Dekl. | | 1 Hev. Draconis. 4ᵐ.3. AR. | | Dekl. | | ε Ursae minoris. 4ᵐ.2. AR. | | Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $6^h\ 59^m$ | | +87° 11′ | | $9^h\ 24^m$ | | +81° 42′ | | $16^h\ 54^m$ | | +82° 11′ | |
| Sept. 15 | 17.03 | 56 | 14.41 | 14 | 28.92 | 13 | 63.97 | 34 | 59.75 | 20 | 15.57 | 8 |
| 16 | 17.59 | 57 | 14.27 | 11 | 29.05 | 12 | 63.63 | 32 | 59.55 | 19 | 15.49 | 11 |
| 17 | 18.16 | 56 | 14.16 | 10 | 29.17 | 13 | 63.31 | 30 | 59.36 | 19 | 15.38 | 12 |
| 18 | 18.72 | 54 | 14.06 | 9 | 29.30 | 13 | 63.01 | 29 | 59.17 | 19 | 15.26 | 13 |
| 19 | 19.26 | 53 | 13.97 | 7 | 29.43 | 12 | 62.72 | 28 | 58.98 | 17 | 15.13 | 13 |
| 20 | 19.79 | 50 | 13.90 | 8 | 29.55 | 12 | 62.44 | 26 | 58.81 | 17 | 15.00 | 12 |
| 21 | 20.29 | 49 | 13.82 | 8 | 29.67 | 11 | 62.18 | 27 | 58.64 | 16 | 14.88 | 10 |
| 22 | 20.78 | 47 | 13.74 | 9 | 29.78 | 10 | 61.91 | 28 | 58.48 | 16 | 14.78 | 10 |
| 23 | 21.25 | 46 | 13.65 | 11 | 29.88 | 10 | 61.63 | 30 | 58.32 | 17 | 14.68 | 10 |
| 24 | 21.71 | 48 | 13.54 | 11 | 29.98 | 11 | 61.33 | 31 | 58.15 | 17 | 14.58 | 8 |
| 25 | 22.19 | 50 | 13.43 | 12 | 30.09 | 12 | 61.02 | 31 | 57.98 | 17 | 14.50 | 8 |
| 26 | 22.69 | 52 | 13.31 | 12 | 30.21 | 13 | 60.71 | 33 | 57.81 | 18 | 14.42 | 10 |
| 27 | 23.21 | 55 | 13.19 | 10 | 30.34 | 13 | 60.38 | 32 | 57.63 | 19 | 14.32 | 10 |
| 28 | 23.76 | 56 | 13.09 | 9 | 30.47 | 13 | 60.06 | 30 | 57.44 | 20 | 14.22 | 13 |
| 29 | 24.32 | 58 | 13.00 | 6 | 30.60 | 15 | 59.76 | 30 | 57.24 | 18 | 14.09 | 17 |
| 30 | 24.90 | 57 | 12.94 | 5 | 30.75 | 15 | 59.46 | 27 | 57.06 | 18 | 13.92 | 17 |
| Okt. 1 | 25.47 | 56 | 12.89 | 3 | 30.90 | 15 | 59.19 | 26 | 56.88 | 17 | 13.75 | 19 |
| 2 | 26.03 | 55 | 12.86 | 1 | 31.05 | 15 | 58.93 | 24 | 56.71 | 17 | 13.56 | 20 |
| 3 | 26.58 | 53 | 12.85 | 1 | 31.20 | 14 | 58.69 | 23 | 56.54 | 15 | 13.36 | 19 |
| 4 | 27.11 | 52 | 12.84 | 0 | 31.34 | 14 | 58.46 | 23 | 56.39 | 16 | 13.17 | 19 |
| 5 | 27.63 | 50 | 12.84 | 2 | 31.48 | 13 | 58.23 | 23 | 56.23 | 15 | 12.98 | 17 |
| 6 | 28.13 | 48 | 12.82 | 4 | 31.61 | 12 | 58.00 | 25 | 56.08 | 14 | 12.81 | 16 |
| 7 | 28.61 | 49 | 12.78 | 5 | 31.73 | 13 | 57.75 | 26 | 55.94 | 16 | 12.65 | 16 |
| 8 | 29.10 | 51 | 12.73 | 5 | 31.86 | 14 | 57.49 | 27 | 55.78 | 16 | 12.49 | 15 |
| 9 | 29.61 | 53 | 12.68 | 6 | 32.00 | 14 | 57.22 | 29 | 55.62 | 17 | 12.34 | 14 |
| 10 | 30.14 | 55 | 12.62 | 5 | 32.14 | 15 | 56.93 | 28 | 55.45 | 17 | 12.20 | 16 |
| 11 | 30.69 | 58 | 12.57 | 4 | 32.29 | 16 | 56.65 | 28 | 55.28 | 18 | 12.04 | 18 |
| 12 | 31.27 | 59 | 12.53 | 2 | 32.45 | 17 | 56.37 | 26 | 55.10 | 18 | 11.86 | 21 |
| 13 | 31.86 | 60 | 12.51 | 0 | 32.62 | 17 | 56.11 | 25 | 54.92 | 18 | 11.65 | 22 |
| 14 | 32.46 | 59 | 12.51 | 2 | 32.79 | 17 | 55.86 | 23 | 54.74 | 17 | 11.43 | 25 |
| 15 | 33.05 | 58 | 12.53 | 4 | 32.96 | 17 | 55.63 | 21 | 54.57 | 16 | 11.18 | 26 |
| 16 | 33.63 | 56 | 12.57 | 4 | 33.13 | 17 | 55.42 | 19 | 54.41 | 14 | 10.92 | 26 |
| 17 | 34.19 | 53 | 12.61 | 6 | 33.30 | 17 | 55.23 | 18 | 54.27 | 14 | 10.66 | 25 |
| 18 | 34.72 | 51 | 12.67 | 5 | 33.47 | 15 | 55.05 | 18 | 54.13 | 14 | 10.41 | 24 |
| 19 | 35.23 | 49 | 12.72 | 4 | 33.62 | 15 | 54.87 | 19 | 53.99 | 13 | 10.17 | 24 |
| 20 | 35.72 | 48 | 12.76 | 4 | 33.77 | 14 | 54.68 | 20 | 53.86 | 13 | 9.93 | 22 |
| 21 | 36.20 | 49 | 12.80 | 2 | 33.91 | 14 | 54.48 | 20 | 53.73 | 14 | 9.71 | 21 |
| 22 | 36.69 | | 12.82 | | 34.05 | | 54.28 | | 53.59 | | 9.50 | |
| O. K. | + 0ˢ.43 cos φ | | | | + 0ˢ.15 cos φ | | | | + 0ˢ.16 cos φ | | | |
| U. K. | — 0 .43 cos φ | | | | — 0 .15 cos φ | | | | — 0 .16 cos φ | | | |

## Obere Kulmination.

| 1911 | 51 Hev. Cephei. 5$^m$.2. | | | | 1 Hev. Draconis. 4$^m$.3. | | | | ε Ursae minoris. 4$^m$.2. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | 6$^h$ 59$^m$ | | +87° 11′ | | 9$^h$ 24$^m$ | | +81° 42′ | | 16$^h$ 54$^m$ | | +82° 10′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | |
| Okt. 22 | 36.69 | 49 | 12.82 | 1 | 34.05 | 16 | 54.28 | 22 | 53.59 | 14 | 69.50 | 21 |
| 23 | 37.18 | 51 | 12.83 | 1 | 34.21 | 16 | 54.06 | 22 | 53.45 | 14 | 69.29 | 21 |
| 24 | 37.69 | 54 | 12.84 | 2 | 34.37 | 16 | 53.84 | 23 | 53.31 | 15 | 69.08 | 22 |
| 25 | 38.23 | 56 | 12.86 | 3 | 34.53 | 18 | 53.61 | 22 | 53.16 | 15 | 68.86 | 25 |
| 26 | 38.79 | 58 | 12.89 | 5 | 34.71 | 18 | 53.39 | 20 | 53.01 | 16 | 68.61 | 26 |
| 27 | 39.37 | 56 | 12.94 | 8 | 34.89 | 19 | 53.19 | 17 | 52.85 | 14 | 68.35 | 28 |
| 28 | 39.93 | 56 | 13.02 | 11 | 35.08 | 18 | 53.02 | 15 | 52.71 | 13 | 68.07 | 30 |
| 29 | 40.49 | 54 | 13.13 | 12 | 35.26 | 18 | 52.87 | 14 | 52.58 | 13 | 67.77 | 31 |
| 30 | 41.03 | 52 | 13.25 | 13 | 35.44 | 18 | 52.73 | 12 | 52.45 | 12 | 67.46 | 32 |
| 31 | 41.55 | 50 | 13.38 | 12 | 35.62 | 17 | 52.61 | 12 | 52.33 | 11 | 67.14 | 30 |
| Nov. 1 | 42.05 | 48 | 13.50 | 12 | 35.79 | 16 | 52.49 | 12 | 52.22 | 11 | 66.84 | 29 |
| 2 | 42.53 | 46 | 13.62 | 11 | 35.95 | 17 | 52.37 | 13 | 52.11 | 10 | 66.55 | 28 |
| 3 | 42.99 | 46 | 13.73 | 9 | 36.12 | 16 | 52.24 | 13 | 52.11 | 11 | 66.27 | 27 |
| 4 | 43.45 | 47 | 13.82 | 8 | 36.28 | 16 | 52.11 | 15 | 52.00 | 11 | 66.00 | 26 |
| 5 | 43.92 | 48 | 13.90 | 9 | 36.44 | 17 | 51.96 | 16 | 51.89 | 11 | 65.74 | 26 |
| 6 | 44.40 | 50 | 13.99 | 8 | 36.61 | 17 | 51.80 | 16 | 51.68 | 12 | 65.48 | 27 |
| 7 | 44.90 | 53 | 14.07 | 8 | 36.78 | 18 | 51.64 | 17 | 51.56 | 13 | 65.21 | 29 |
| 8 | 45.43 | 54 | 14.15 | 10 | 36.96 | 19 | 51.47 | 15 | 51.43 | 13 | 64.92 | 30 |
| 9 | 45.97 | 54 | 14.25 | 12 | 37.15 | 20 | 51.32 | 13 | 51.30 | 12 | 64.62 | 32 |
| 10 | 46.51 | 54 | 14.37 | 15 | 37.35 | 20 | 51.19 | 12 | 51.28 | 12 | 64.30 | 34 |
| 11 | 47.05 | 53 | 14.52 | 17 | 37.55 | 20 | 51.07 | 9 | 51.06 | 10 | 63.96 | 36 |
| 12 | 47.58 | 50 | 14.69 | 19 | 37.75 | 19 | 50.98 | 7 | 50.96 | 10 | 63.60 | 36 |
| 13 | 48.08 | 48 | 14.88 | 19 | 37.94 | 19 | 50.91 | 6 | 50.86 | 9 | 63.24 | 36 |
| 14 | 48.56 | 46 | 15.07 | 19 | 38.13 | 17 | 50.85 | 4 | 50.77 | 7 | 62.88 | 35 |
| 15 | 49.02 | 43 | 15.26 | 18 | 38.30 | 17 | 50.81 | 5 | 50.70 | 7 | 62.53 | 33 |
| 16 | 49.45 | 41 | 15.44 | 17 | 38.47 | 17 | 50.76 | 6 | 50.63 | 8 | 62.20 | 32 |
| 17 | 49.86 | 40 | 15.61 | 16 | 38.64 | 16 | 50.70 | 7 | 50.55 | 7 | 61.88 | 31 |
| 18 | 50.26 | 41 | 15.77 | 14 | 38.80 | 16 | 50.63 | 7 | 50.48 | 7 | 61.57 | 30 |
| 19 | 50.67 | 43 | 15.91 | 15 | 38.96 | 18 | 50.56 | 9 | 50.41 | 8 | 61.27 | 30 |
| 20 | 51.10 | 44 | 16.06 | 14 | 39.14 | 18 | 50.47 | 9 | 50.33 | 9 | 60.97 | 31 |
| 21 | 51.54 | 46 | 16.20 | 16 | 39.32 | 18 | 50.38 | 8 | 50.24 | 9 | 60.66 | 32 |
| 22 | 52.00 | 46 | 16.36 | 19 | 39.50 | 20 | 50.30 | 6 | 50.15 | 8 | 60.34 | 35 |
| 23 | 52.46 | 48 | 16.55 | 20 | 39.70 | 19 | 50.24 | 5 | 50.07 | 8 | 59.99 | 36 |
| 24 | 52.94 | 47 | 16.75 | 22 | 39.89 | 20 | 50.19 | 2 | 49.99 | 7 | 59.63 | 38 |
| 25 | 53.41 | 45 | 16.97 | 24 | 40.09 | 19 | 50.17 | 0 | 49.92 | 6 | 59.25 | 39 |
| 26 | 53.86 | 42 | 17.21 | 25 | 40.28 | 19 | 50.17 | 2 | 49.86 | 6 | 58.86 | 38 |
| 27 | 54.28 | 39 | 17.46 | 26 | 40.47 | 18 | 50.19 | 3 | 49.80 | 4 | 58.48 | 38 |
| 28 | 54.67 | | 17.72 | | 40.65 | | 50.22 | | 49.76 | | 58.10 | |
| O. K. | + 0$^s$.43 cos φ | | | | + 0$^s$.15 cos φ | | | | + 0$^s$.16 cos φ | | | |
| U. K. | — 0 .43 cos φ | | | | — 0 .15 cos φ | | | | — 0 .16 cos φ | | | |

## Obere Kulmination.

| 1911 | 51 Hev. Cephei. $5^m.2$. | | | | 1 Hev. Draconis. $4^m.3$. | | | | ε Ursae minoris. $4^m.2$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | $6^h\ 59^m$ | | +87° 11′ | | $9^h\ 24^m$ | | +81° 42′ | | $16^h\ 54^m$ | | +82° 10′ | |
| Nov. 28 | 54.67 | 37 | 17.72 | 25 | 40.65 | 18 | 50.22 | 3 | 49.76 | 3 | 58.10 | 38 |
| 29 | 55.04 | 35 | 17.97 | 24 | 40.83 | 17 | 50.25 | 2 | 49.73 | 4 | 57.72 | 36 |
| 30 | 55.39 | 34 | 18.21 | 23 | 41.00 | 16 | 50.27 | 2 | 49.69 | 3 | 57.36 | 34 |
| Dez. 1 | 55.73 | 34 | 18.44 | 21 | 41.16 | 16 | 50.29 | 1 | 49.66 | 3 | 57.02 | 33 |
| 2 | 56.07 | 35 | 18.65 | 19 | 41.32 | 17 | 50.30 | 1 | 49.63 | 4 | 56.69 | 33 |
| 3 | 56.42 | 36 | 18.84 | 20 | 41.49 | 17 | 50.29 | 2 | 49.59 | 5 | 56.36 | 32 |
| 4 | 56.78 | 38 | 19.04 | 20 | 41.66 | 17 | 50.27 | 1 | 49.54 | 4 | 56.04 | 33 |
| 5 | 57.16 | 40 | 19.24 | 22 | 41.83 | 18 | 50.26 | 1 | 49.50 | 5 | 55.71 | 35 |
| 6 | 57.56 | 40 | 19.46 | 23 | 42.01 | 19 | 50.25 | 1 | 49.45 | 5 | 55.36 | 37 |
| 7 | 57.96 | 40 | 19.69 | 26 | 42.20 | 20 | 50.26 | 3 | 49.40 | 5 | 54.99 | 39 |
| | | | | | | | | | 49.35 | 3 | 54.60 | 40 |
| 8 | 58.36 | 39 | 19.95 | 27 | 42.40 | 19 | 50.29 | 6 | 49.32 | 3 | 54.20 | 41 |
| 9 | 58.75 | 36 | 20.22 | 30 | 42.59 | 18 | 50.35 | 8 | 49.29 | 1 | 53.79 | 40 |
| 10 | 59.11 | 34 | 20.52 | 30 | 42.77 | 18 | 50.43 | 9 | 49.28 | 1 | 53.39 | 39 |
| 11 | 59.45 | 31 | 20.82 | 31 | 42.95 | 18 | 50.52 | 10 | 49.27 | 1 | 53.00 | 38 |
| 12 | 59.76 | 27 | 21.13 | 29 | 43.13 | 16 | 50.62 | 11 | 49.28 | 2 | 52.62 | 37 |
| 13 | 60.03 | 26 | 21.42 | 28 | 43.29 | 15 | 50.73 | 10 | 49.30 | 1 | 52.25 | 34 |
| 14 | 60.29 | 24 | 21.70 | 27 | 43.44 | 15 | 50.83 | 9 | 49.31 | 1 | 51.91 | 34 |
| 15 | 60.53 | 24 | 21.97 | 26 | 43.59 | 15 | 50.92 | 8 | 49.32 | 1 | 51.57 | 33 |
| 16 | 60.77 | 25 | 22.23 | 25 | 43.74 | 15 | 51.00 | 8 | 49.33 | 0 | 51.24 | 33 |
| 17 | 61.02 | 26 | 22.48 | 24 | 43.89 | 16 | 51.08 | 7 | 49.33 | 1 | 50.91 | 34 |
| 18 | 61.28 | 27 | 22.72 | 26 | 44.05 | 16 | 51.15 | 7 | 49.32 | 1 | 50.57 | 35 |
| 19 | 61.55 | 28 | 22.98 | 27 | 44.21 | 16 | 51.22 | 9 | 49.31 | 0 | 50.22 | 37 |
| 20 | 61.83 | 29 | 23.25 | 30 | 44.37 | 17 | 51.31 | 10 | 49.31 | 1 | 49.85 | 39 |
| 21 | 62.12 | 28 | 23.55 | 31 | 44.54 | 18 | 51.41 | 13 | 49.32 | 2 | 49.46 | 40 |
| 22 | 62.40 | 27 | 23.86 | 32 | 44.72 | 17 | 51.54 | 15 | 49.34 | 3 | 49.06 | 40 |
| 23 | 62.67 | 24 | 24.18 | 34 | 44.89 | 16 | 51.69 | 17 | 49.37 | 4 | 48.66 | 39 |
| 24 | 62.91 | 20 | 24.52 | 34 | 45.05 | 15 | 51.86 | 18 | 49.41 | 5 | 48.27 | 38 |
| 25 | 63.11 | 18 | 24.86 | 34 | 45.20 | 15 | 52.04 | 19 | 49.46 | 5 | 47.89 | 37 |
| 26 | 63.29 | 16 | 25.20 | 33 | 45.35 | 14 | 52.23 | 19 | 49.51 | 5 | 47.52 | 35 |
| 27 | 63.45 | 14 | 25.53 | 32 | 45.49 | 13 | 52.42 | 17 | 49.56 | 6 | 47.17 | 32 |
| 28 | 63.59 | 13 | 25.85 | 30 | 45.62 | 13 | 52.59 | 16 | 49.62 | 4 | 46.85 | 31 |
| 29 | 63.72 | 13 | 26.15 | 28 | 45.75 | 12 | 52.75 | 15 | 49.66 | 5 | 46.54 | 32 |
| 30 | 63.85 | 15 | 26.43 | 28 | 45.87 | 13 | 52.90 | 14 | 49.71 | 4 | 46.22 | 31 |
| 31 | 64.00 | 15 | 26.71 | 27 | 46.00 | 14 | 53.04 | 14 | 49.75 | 3 | 45.91 | 32 |
| 32 | 64.15 | | 26.98 | | 46.14 | | 53.18 | | 49.78 | | 45.59 | |
| O. K. | + 0ˢ.43 cos φ | | | | + 0ˢ.15 cos φ | | | | + 0ˢ.16 cos φ | | | |
| U. K. | — 0 .43 cos φ | | | | — 0 .15 cos φ | | | | — 0 .16 cos φ | | | |

## Obere Kulmination.

| 1911 | δ Ursae minoris. 4$^m$.3. AR. | Diff. | δ Ursae minoris. Dekl. | Diff. | λ Ursae minoris. 6$^m$.8. AR. | Diff. | λ Ursae minoris. Dekl. | Diff. | 76 Draconis. 6$^m$.0. AR. | Diff. | 76 Draconis. Dekl. | Diff. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 18$^h$ 0$^m$ | | +86° 36′ | | 19$^h$ 8$^m$ | | +89° 0′ | | 20$^h$ 48$^m$ | | +82° 12′ | |
| Jan. 1 | 40.06 | 0 | 41.68 | 39 | 40.15 | 52 | 23.97 | 35 | 56.13 | 12 | 12.43 | 28 |
| 2 | 40.06 | 2 | 41.29 | 39 | 39.63 | 45 | 23.62 | 37 | 56.01 | 11 | 12.15 | 31 |
| 3 | 40.08 | 5 | 40.90 | 38 | 39.18 | 36 | 23.25 | 37 | 55.90 | 11 | 11.84 | 31 |
| 4 | 40.13 | 7 | 40.52 | 36 | 38.82 | 28 | 22.88 | 36 | 55.79 | 10 | 11.53 | 31 |
| 5 | 40.20 | 7 | 40.16 | 33 | 38.54 | 21 | 22.52 | 35 | 55.69 | 8 | 11.22 | 31 |
| 6 | 40.27 | 7 | 39.83 | 32 | 38.33 | 16 | 22.17 | 33 | 55.61 | 8 | 10.91 | 30 |
| | | | | | 38.17 | 14 | 21.84 | 32 | | | | |
| 7 | 40.34 | 6 | 39.51 | 30 | 38.03 | 16 | 21.52 | 30 | 55.53 | 7 | 10.61 | 27 |
| 8 | 40.40 | 5 | 39.21 | 30 | 37.87 | 18 | 21.22 | 30 | 55.46 | 7 | 10.34 | 27 |
| 9 | 40.45 | 4 | 38.91 | 31 | 37.69 | 23 | 20.92 | 29 | 55.39 | 7 | 10.07 | 26 |
| 10 | 40.49 | 3 | 38.60 | 31 | 37.46 | 27 | 20.63 | 29 | 55.32 | 8 | 9.81 | 25 |
| 11 | 40.52 | 4 | 38.29 | 33 | 37.19 | 28 | 20.34 | 32 | 55.24 | 7 | 9.56 | 26 |
| 12 | 40.56 | 4 | 37.96 | 34 | 36.91 | 28 | 20.02 | 33 | 55.17 | 9 | 9.30 | 27 |
| 13 | 40.60 | 5 | 37.62 | 36 | 36.63 | 24 | 19.69 | 35 | 55.08 | 10 | 9.03 | 29 |
| 14 | 40.65 | 8 | 37.26 | 36 | 36.39 | 17 | 19.34 | 36 | 54.98 | 9 | 8.74 | 30 |
| 15 | 40.73 | 11 | 36.90 | 37 | 36.22 | 8 | 18.98 | 38 | 54.89 | 8 | 8.44 | 32 |
| 16 | 40.84 | 13 | 36.53 | 37 | 36.14 | $\bar{2}$ | 18.60 | 37 | 54.81 | 8 | 8.12 | 34 |
| 17 | 40.97 | 16 | 36.16 | 34 | 36.16 | 10 | 18.23 | 37 | 54.73 | 6 | 7.78 | 35 |
| 18 | 41.13 | 17 | 35.82 | 33 | 36.26 | 17 | 17.86 | 35 | 54.67 | 6 | 7.43 | 35 |
| 19 | 41.30 | 17 | 35.49 | 31 | 36.43 | 22 | 17.51 | 33 | 54.61 | 4 | 7.08 | 35 |
| 20 | 41.47 | 18 | 35.18 | 29 | 36.65 | 23 | 17.18 | 31 | 54.57 | 3 | 6.73 | 33 |
| 21 | 41.65 | 17 | 34.89 | 27 | 36.88 | 23 | 16.87 | 30 | 54.54 | 3 | 6.40 | 32 |
| 22 | 41.82 | 16 | 34.62 | 27 | 37.11 | 20 | 16.57 | 29 | 54.51 | 3 | 6.08 | 30 |
| 23 | 41.98 | 15 | 34.35 | 28 | 37.31 | 14 | 16.28 | 30 | 54.48 | 2 | 5.78 | 29 |
| 24 | 42.13 | 14 | 34.07 | 28 | 37.45 | 11 | 15.98 | 30 | 54.46 | 4 | 5.49 | 30 |
| 25 | 42.27 | 13 | 33.79 | 29 | 37.56 | 11 | 15.68 | 32 | 54.42 | 4 | 5.19 | 30 |
| 26 | 42.40 | 15 | 33.50 | 32 | 37.67 | 12 | 15.36 | 33 | 54.38 | 4 | 4.89 | 30 |
| 27 | 42.55 | 16 | 33.18 | 32 | 37.79 | 15 | 15.03 | 34 | 54.34 | 5 | 4.59 | 33 |
| 28 | 42.71 | 18 | 32.86 | 33 | 37.94 | 22 | 14.69 | 35 | 54.29 | 5 | 4.26 | 34 |
| 29 | 42.89 | 21 | 32.53 | 33 | 38.16 | 30 | 14.34 | 36 | 54.24 | 3 | 3.92 | 35 |
| 30 | 43.10 | 23 | 32.20 | 31 | 38.46 | 38 | 13.98 | 36 | 54.21 | 3 | 3.57 | 37 |
| | | | | | | | | | 54.18 | 2 | 3.20 | 37 |
| 31 | 43.33 | 24 | 31.89 | 30 | 38.84 | 45 | 13.62 | 33 | 54.16 | 0 | 2.83 | 37 |
| Febr. 1 | 43.57 | 26 | 31.59 | 27 | 39.29 | 51 | 13.29 | 32 | 54.16 | 0 | 2.46 | 36 |
| 2 | 43.83 | 26 | 31.32 | 25 | 39.80 | 53 | 12.97 | 31 | 54.16 | 0 | 2.10 | 34 |
| 3 | 44.09 | 24 | 31.07 | 24 | 40.33 | 53 | 12.66 | 28 | 54.16 | 1 | 1.76 | 32 |
| 4 | 44.33 | 23 | 30.83 | 22 | 40.86 | 50 | 12.38 | 27 | 54.17 | 1 | 1.44 | 31 |
| 5 | 44.56 | | 30.61 | | 41.36 | | 12.11 | | 54.18 | | 1.13 | |
| O. K. | + 0$^s$.36 cos φ | | | | + 1$^s$.23 cos φ | | | | + 0$^s$.16 cos φ | | | |
| U. K. | — 0 .36 cos φ | | | | — 1 .23 cos φ | | | | — 0 .16 cos φ | | | |

# Obere Kulmination.

| 1911 | δ Ursae minoris. 4ᵐ.3. AR. | | δ Ursae minoris. Dekl. | | λ Ursae minoris. 6ᵐ.8. AR. | | λ Ursae minoris. Dekl. | | 76 Draconis. 6ᵐ.0. AR. | | 76 Draconis. Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 18ʰ 0ᵐ | | +86° 36′ | | 19ʰ 8ᵐ | | +89° 0′ | | 20ʰ 48ᵐ | | +82° 11′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | |
| Febr. 5 | 44.56 | 23 | 30.61 | 22 | 41.36 | 47 | 12.11 | 27 | 54.18 | 1 | 61.13 | 30 |
| 6 | 44.79 | 21 | 30.39 | 22 | 41.83 | 42 | 11.84 | 26 | 54.19 | 1 | 60.83 | 29 |
| 7 | 45.00 | 21 | 30.17 | 23 | 42.25 | 39 | 11.58 | 27 | 54.20 | 1 | 60.54 | 30 |
| 8 | 45.21 | 21 | 29.94 | 25 | 42.64 | 39 | 11.31 | 28 | 54.19 | 1 | 60.24 | 30 |
| 9 | 45.42 | 22 | 29.69 | 26 | 43.03 | 41 | 11.03 | 30 | 54.18 | 1 | 59.94 | 33 |
| 10 | 45.64 | 24 | 29.43 | 28 | 43.44 | 46 | 10.73 | 31 | 54.17 | 0 | 59.61 | 34 |
| 11 | 45.88 | 26 | 29.15 | 27 | 43.90 | 54 | 10.42 | 32 | 54.17 | 1 | 59.27 | 36 |
| 12 | 46.14 | 28 | 28.88 | 25 | 44.44 | 63 | 10.10 | 32 | 54.18 | 2 | 58.91 | 36 |
| 13 | 46.42 | 31 | 28.63 | 25 | 45.07 | 71 | 9.78 | 31 | 54.20 | 3 | 58.55 | 37 |
| 14 | 46.73 | 32 | 28.38 | 23 | 45.78 | 79 | 9.47 | 29 | 54.23 | 4 | 58.18 | 36 |
| 15 | 47.05 | 33 | 28.15 | 20 | 46.57 | 84 | 9.18 | 28 | 54.27 | 5 | 57.82 | 35 |
| 16 | 47.38 | 33 | 27.95 | 19 | 47.41 | 86 | 8.90 | 25 | 54.32 | 5 | 57.47 | 32 |
| 17 | 47.71 | 33 | 27.76 | 16 | 48.27 | 86 | 8.65 | 23 | 54.37 | 6 | 57.15 | 31 |
| 18 | 48.04 | 31 | 27.60 | 15 | 49.13 | 82 | 8.42 | 23 | 54.43 | 5 | 56.84 | 29 |
| 19 | 48.35 | 29 | 27.45 | 14 | 49.95 | 77 | 8.19 | 21 | 54.48 | 5 | 56.55 | 29 |
| 20 | 48.64 | 29 | 27.31 | 15 | 50.72 | 74 | 7.98 | 22 | 54.53 | 5 | 56.26 | 28 |
| 21 | 48.93 | 28 | 27.16 | 17 | 51.46 | 71 | 7.76 | 22 | 54.58 | 4 | 55.98 | 28 |
| 22 | 49.21 | 27 | 26.99 | 18 | 52.17 | 69 | 7.54 | 24 | 54.62 | 4 | 55.70 | 30 |
| 23 | 49.48 | 29 | 26.81 | 18 | 52.86 | 72 | 7.30 | 25 | 54.66 | 4 | 55.40 | 31 |
| 24 | 49.77 | 32 | 26.63 | 20 | 53.58 | 77 | 7.05 | 26 | 54.70 | 4 | 55.09 | 33 |
| 25 | 50.09 | 33 | 26.43 | 19 | 54.35 | 84 | 6.79 | 26 | 54.74 | 5 | 54.76 | 33 |
| 26 | 50.42 | 34 | 26.24 | 18 | 55.19 | 92 | 6.53 | 26 | 54.79 | 6 | 54.43 | 34 |
| 27 | 50.76 | 36 | 26.06 | 17 | 56.11 | 99 | 6.27 | 26 | 54.85 | 7 | 54.09 | 34 |
| 28 | 51.12 | 38 | 25.89 | 14 | 57.10 | 103 | 6.01 | 23 | 54.92 | 8 | 53.75 | 32 |
| März 1 | 51.50 | 37 | 25.75 | 12 | 58.13 | 106 | 5.78 | 20 | 55.00 | 9 | 53.43 | 30 |
| 2 | 51.87 | 36 | 25.63 | 9 | 59.19 | 107 | 5.58 | 18 | 55.09 | 10 | 53.13 | 28 |
| 3 | 52.23 | 35 | 25.54 | 7 | 60.26 | 105 | 5.40 | 16 | 55.19 | 9 | 52.85 | 26 |
| 4 | 52.58 | 34 | 25.47 | 7 | 61.31 | 100 | 5.24 | 15 | 55.28 | 9 | 52.59 | 24 |
| 5 | 52.92 | 31 | 25.40 | 7 | 62.31 | 93 | 5.09 | 15 | 55.37 | 8 | 52.35 | 24 |
| 6 | 53.23 | 31 | 25.33 | 8 | 63.24 | 88 | 4.94 | 15 | 55.45 | 8 | 52.11 | 24 |
| 7 | 53.54 | 30 | 25.25 | 8 | 64.12 | 87 | 4.79 | 15 | 55.53 | 8 | 51.87 | 24 |
| 8 | 53.84 | 31 | 25.17 | 10 | 64.99 | 87 | 4.64 | 17 | 55.61 | 7 | 51.63 | 25 |
| 9 | 54.15 | 31 | 25.07 | 10 | 65.86 | 90 | 4.47 | 18 | 55.68 | 7 | 51.38 | 27 |
| 10 | 54.46 | 33 | 24.97 | 11 | 66.76 | 95 | 4.29 | 19 | 55.75 | 8 | 51.11 | 28 |
| 11 | 54.79 | 36 | 24.86 | 11 | 67.71 | 103 | 4.10 | 19 | 55.83 | 9 | 50.83 | 28 |
| 12 | 55.15 | 38 | 24.75 | 9 | 68.74 | 111 | 3.91 | 18 | 55.92 | 10 | 50.55 | 29 |
| 13 | 55.53 | 38 | 24.66 | 7 | 69.85 | 119 | 3.73 | 17 | 56.02 | 11 | 50.26 | 27 |
| 14 | 55.91 | | 24.59 | | 71.04 | | 3.56 | | 56.13 | | 49.99 | |
| O. K. | + 0ˢ.36 cos φ | | | | + 1ˢ.22 cos φ | | | | + 0ˢ.16 cos φ | | | |
| U. K. | — 0 .36 cos φ | | | | — 1 .22 cos φ | | | | — 0 .16 cos φ | | | |

## Obere Kulmination.

| 1911 | δ Ursae minoris. 4ᵐ.3. AR. | | Dekl. | | λ Ursae minoris. 6ᵐ.8. AR. | | Dekl. | | 76 Draconis. 6ᵐ.0. AR. | | Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $18^h\ 0^m$ | | +86° 36′ | | $19^h\ 9^m$ | | +89° 0′ | | $20^h\ 48^m$ | | +82° 11′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | |
| März 14 | 55.91 | 40 | 24.59 | 5 | 11.04 | 123 | 3.56 | 15 | 56.13 | 12 | 49.99 | 27 |
| 15 | 56.31 | 41 | 24.54 | 2 | 12.27 | 125 | 3.41 | 12 | 56.25 | 13 | 49.72 | 25 |
| 16 | 56.72 | 39 | 24.52 | 0 | 13.52 | 125 | 3.29 | 9 | 56.38 | 13 | 49.47 | 22 |
| 17 | 57.11 | 38 | 24.52 | 1 | 14.77 | 121 | 3.20 | 9 | 56.51 | 13 | 49.25 | 20 |
| 18 | 57.49 | 35 | 24.53 | 2 | 15.98 | 116 | 3.11 | 7 | 56.64 | 12 | 49.05 | 19 |
| 19 | 57.84 | 34 | 24.55 | 2 | 17.14 | 110 | 3.04 | 8 | 56.76 | 12 | 48.86 | 19 |
| 20 | 58.18 | 33 | 24.57 | 1 | 18.24 | 106 | 2.96 | 8 | 56.88 | 11 | 48.67 | 18 |
| 21 | 58.51 | 32 | 24.58 | 0 | 19.30 | 103 | 2.88 | 8 | 56.99 | 11 | 48.49 | 18 |
| 22 | 58.83 | 32 | 24.58 | 1 | 20.33 | 102 | 2.80 | 9 | 57.10 | 10 | 48.31 | 20 |
| 23 | 59.15 | 34 | 24.57 | 2 | 21.35 | 106 | 2.71 | 10 | 57.20 | 11 | 48.11 | 21 |
| 24 | 59.49 | 36 | 24.55 | 2 | 22.41 | 111 | 2.61 | 12 | 57.31 | 12 | 47.90 | 22 |
| 25 | 59.85 | 37 | 24.53 | 2 | 23.52 | 116 | 2.49 | 11 | 57.43 | 12 | 47.68 | 22 |
| 26 | 60.22 | 38 | 24.51 | 0 | 24.68 | 123 | 2.38 | 9 | 57.55 | 13 | 47.46 | 22 |
| 27 | 60.60 | 38 | 24.51 | 2 | 25.91 | 128 | 2.29 | 8 | 57.68 | 14 | 47.24 | 21 |
| 28 | 60.98 | 39 | 24.53 | 5 | 27.19 | 130 | 2.21 | 5 | 57.82 | 14 | 47.03 | 19 |
| 29 | 61.37 | 38 | 24.58 | 7 | 28.49 | 130 | 2.16 | 3 | 57.96 | 15 | 46.84 | 16 |
| 30 | 61.75 | 37 | 24.65 | 9 | 29.79 | 128 | 2.13 | 2 | 58.11 | 16 | 46.68 | 14 |
| 31 | 62.12 | 35 | 24.74 | 10 | 31.07 | 122 | 2.11 | 1 | 58.27 | 15 | 46.54 | 12 |
| April 1 | 62.47 | 32 | 24.84 | 11 | 32.29 | 115 | 2.12 | 2 | 58.42 | 14 | 46.42 | 10 |
| 2 | 62.79 | 31 | 24.95 | 10 | 33.44 | 109 | 2.14 | 2 | 58.56 | 14 | 46.32 | 10 |
| 3 | 63.10 | 29 | 25.05 | 9 | 34.53 | 104 | 2.16 | 1 | 58.70 | 13 | 46.22 | 10 |
| 4 | 63.39 | 29 | 25.14 | 8 | 35.57 | 102 | 2.17 | 0 | 58.83 | 12 | 46.12 | 10 |
| 5 | 63.68 | 30 | 25.22 | 7 | 36.59 | 103 | 2.17 | 1 | 58.95 | 12 | 46.02 | 11 |
| 6 | 63.98 | 31 | 25.29 | 6 | 37.62 | 106 | 2.16 | 2 | 59.07 | 12 | 45.91 | 13 |
| 7 | 64.29 | 32 | 25.35 | 6 | 38.68 | 111 | 2.14 | 2 | 59.19 | 14 | 45.78 | 14 |
| 8 | 64.61 | 35 | 25.41 | 8 | 39.79 | 118 | 2.12 | 2 | 59.33 | 14 | 45.64 | 14 |
| 9 | 64.96 | 36 | 25.49 | 9 | 40.97 | 124 | 2.10 | 1 | 59.47 | 15 | 45.50 | 14 |
| 10 | 65.32 | 37 | 25.58 | 11 | 42.21 | 130 | 2.09 | 1 | 59.62 | 16 | 45.36 | 12 |
| 11 | 65.69 | 36 | 25.69 | 14 | 43.51 | 132 | 2.10 | 4 | 59.78 | 17 | 45.24 | 11 |
| 12 | 66.05 | 35 | 25.83 | 16 | 44.83 | 131 | 2.14 | 6 | 59.95 | 17 | 45.13 | 8 |
| 13 | 66.40 | 34 | 25.99 | 17 | 46.14 | 127 | 2.20 | 7 | 60.12 | 17 | 45.05 | 5 |
| 14 | 66.74 | 32 | 26.16 | 19 | 47.41 | 121 | 2.27 | 10 | 60.29 | 16 | 45.00 | 4 |
| 15 | 67.06 | 29 | 26.35 | 19 | 48.62 | 114 | 2.37 | 10 | 60.45 | 16 | 44.96 | 3 |
| 16 | 67.35 | 29 | 26.54 | 17 | 49.76 | 107 | 2.47 | 10 | 60.61 | 16 | 44.93 | 2 |
| 17 | 67.64 | 27 | 26.71 | 17 | 50.83 | 103 | 2.57 | 8 | 60.77 | 14 | 44.91 | 2 |
| 18 | 67.91 | 26 | 26.88 | 15 | 51.86 | 100 | 2.65 | 8 | 60.91 | 14 | 44.89 | 3 |
| 19 | 68.17 | 27 | 27.03 | 14 | 52.86 | 101 | 2.73 | 6 | 61.05 | 15 | 44.86 | 4 |
| 20 | 68.44 | | 27.17 | | 53.87 | | 2.79 | | 61.20 | | 44.82 | |
| O. K. | + 0ˢ.36 cos φ | | | | + 1ˢ.22 cos φ | | | | + 0ˢ.16 cos φ | | | |
| U. K. | — 0 .36 cos φ | | | | — 1 .22 cos φ | | | | — 0 .16 cos φ | | | |

## Obere Kulmination.

| 1911 | δ Ursae minoris. 4ᵐ.3. | | | | λ Ursae minoris. 6ᵐ.8. | | | | 76 Draconis. 6ᵐ.0. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | 18ʰ 1ᵐ | | +86° 36′ | | 19ʰ 9ᵐ | | +89° 0′ | | 20ʰ 49ᵐ | | +82° 11′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | |
| April 20 | 8.44 | 27 | 27.17 | 14 | 53.87 | 104 | 2.79 | 6 | 1.20 | 14 | 44.82 | 6 |
| 21 | 8.71 | 29 | 27.31 | 14 | 54.91 | 108 | 2.85 | 6 | 1.34 | 14 | 44.76 | 5 |
| 22 | 9.00 | 31 | 27.45 | 16 | 55.99 | 114 | 2.91 | 6 | 1.48 | 15 | 44.71 | 6 |
| 23 | 9.31 | 31 | 27.61 | 17 | 57.13 | 118 | 2.97 | 8 | 1.63 | 16 | 44.65 | 4 |
| 24 | 9.62 | 31 | 27.78 | 19 | 58.31 | 121 | 3.05 | 11 | 1.79 | 17 | 44.61 | 3 |
| 25 | 9.93 | 30 | 27.97 | 21 | 59.52 | 120 | 3.16 | 12 | 1.96 | 17 | 44.58 | 0 |
| 26 | 10.23 | 29 | 28.18 | 23 | 60.72 | 117 | 3.28 | 14 | 2.13 | 17 | 44.58 | 2 |
| 27 | 10.52 | 27 | 28.41 | 24 | 61.89 | 111 | 3.42 | 17 | 2.30 | 17 | 44.60 | 4 |
| 28 | 10.79 | 24 | 28.65 | 25 | 63.00 | 104 | 3.59 | 18 | 2.47 | 17 | 44.64 | 5 |
| 29 | 11.03 | 22 | 28.90 | 25 | 64.04 | 97 | 3.77 | 18 | 2.64 | 16 | 44.69 | 7 |
| 30 | 11.25 | 20 | 29.15 | 24 | 65.01 | 90 | 3.95 | 18 | 2.80 | 14 | 44.76 | 8 |
| Mai 1 | 11.45 | 19 | 29.39 | 24 | 65.91 | 85 | 4.13 | 16 | 2.94 | 14 | 44.84 | 7 |
| 2 | 11.64 | 19 | 29.63 | 21 | 66.76 | 83 | 4.29 | 15 | 3.08 | 14 | 44.91 | 6 |
| 3 | 11.83 | 20 | 29.84 | 20 | 67.59 | 84 | 4.44 | 13 | 3.22 | 14 | 44.97 | 5 |
| 4 | 12.03 | 20 | 30.04 | 20 | 68.43 | 89 | 4.57 | 14 | 3.36 | 14 | 45.02 | 4 |
| 5 | 12.23 | 23 | 30.24 | 20 | 69.32 | 93 | 4.71 | 13 | 3.50 | 14 | 45.06 | 3 |
| 6 | 12.46 | 24 | 30.44 | 21 | 70.25 | 99 | 4.84 | 14 | 3.64 | 16 | 45.09 | 3 |
| 7 | 12.70 | 25 | 30.65 | 23 | 71.24 | 103 | 4.98 | 16 | 3.80 | 16 | 45.12 | 4 |
| 8 | 12.95 | 24 | 30.88 | 26 | 72.27 | 106 | 5.14 | 18 | 3.96 | 16 | 45.16 | 6 |
| 9 | 13.19 | 24 | 31.14 | 27 | 73.33 | 105 | 5.32 | 20 | 4.12 | 18 | 45.22 | 8 |
| 10 | 13.43 | 22 | 31.41 | 30 | 74.38 | 102 | 5.52 | 22 | 4.30 | 17 | 45.30 | 10 |
| 11 | 13.65 | 21 | 31.71 | 30 | 75.40 | 96 | 5.74 | 24 | 4.47 | 17 | 45.40 | 12 |
| 12 | 13.86 | 18 | 32.01 | 30 | 76.36 | 88 | 5.98 | 24 | 4.64 | 16 | 45.52 | 14 |
| 13 | 14.04 | 15 | 32.31 | 30 | 77.24 | 80 | 6.22 | 24 | 4.80 | 15 | 45.66 | 14 |
| 14 | 14.19 | 13 | 32.61 | 29 | 78.04 | 74 | 6.46 | 23 | 4.95 | 14 | 45.80 | 14 |
| 15 | 14.32 | 13 | 32.90 | 26 | 78.78 | 69 | 6.69 | 22 | 5.09 | 14 | 45.94 | 13 |
| 16 | 14.45 | 13 | 33.16 | 26 | 79.47 | 67 | 6.91 | 21 | 5.23 | 13 | 46.07 | 13 |
| 17 | 14.58 | 14 | 33.42 | 25 | 80.14 | 69 | 7.12 | 20 | 5.36 | 13 | 46.20 | 12 |
| 18 | 14.72 | 14 | 33.67 | 24 | 80.83 | 72 | 7.32 | 19 | 5.49 | 12 | 46.32 | 11 |
| 19 | 14.86 | 15 | 33.91 | 24 | 81.55 | 76 | 7.51 | 19 | 5.61 | 14 | 46.43 | 10 |
| 20 | 15.01 | 16 | 34.15 | 26 | 82.31 | 80 | 7.70 | 21 | 5.75 | 14 | 46.53 | 11 |
| 21 | 15.17 | 17 | 34.41 | 28 | 83.11 | 82 | 7.91 | 22 | 5.89 | 15 | 46.64 | 13 |
| 22 | 15.34 | 16 | 34.69 | 30 | 83.93 | 82 | 8.13 | 25 | 6.04 | 16 | 46.77 | 14 |
| 23 | 15.50 | 15 | 34.99 | 32 | 84.75 | 80 | 8.38 | 26 | 6.20 | 15 | 46.91 | 17 |
| 24 | 15.65 | 12 | 35.31 | 33 | 85.55 | 75 | 8.64 | 28 | 6.35 | 16 | 47.08 | 19 |
| 25 | 15.77 | 10 | 35.64 | 34 | 86.30 | 67 | 8.92 | 30 | 6.51 | 15 | 47.27 | 22 |
| 26 | 15.87 | 7 | 35.98 | 33 | 86.97 | 58 | 9.22 | 30 | 6.66 | 13 | 47.49 | 23 |
| 27 | 15.94 | | 36.31 | | 87.55 | | 9.52 | | 6.79 | | 47.72 | |
| O. K. | + 0ˢ.36 cos φ | | | | + 1ˢ.22 cos φ | | | | + 0ˢ.16 cos φ | | | |
| U. K. | — 0 .36 cos φ | | | | — 1 .22 cos φ | | | | — 0 .16 cos φ | | | |

## Obere Kulmination.

| 1911 | δ Ursae minoris. $4^m.3$. AR. | | δ Ursae minoris. Dekl. | | λ Ursae minoris. $6^m.8$. AR. | | λ Ursae minoris. Dekl. | | 76 Draconis. $6^m.0$. AR. | | 76 Draconis. Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $18^h\ 1^m$ | | $+86°\ 36'$ | | $19^h\ 10^m$ | | $+89°\ 0'$ | | $20^h\ 49^m$ | | $+82°\ 11'$ | |
| | s | | ″ | | s | | ″ | | s | | ″ | |
| Mai 27 | 15.94 | 5 | 36.31 | 33 | 27.55 | 50 | 9.52 | 30 | 6.79 | 13 | 47.72 | 23 |
| 28 | 15.99 | 3 | 36.64 | 32 | 28.05 | 44 | 9.82 | 29 | 6.92 | 12 | 47.95 | 23 |
| 29 | 16.02 | 4 | 36.96 | 29 | 28.49 | 41 | 10.11 | 27 | 7.04 | 12 | 48.18 | 22 |
| 30 | 16.06 | 3 | 37.25 | 28 | 28.90 | 39 | 10.38 | 25 | 7.16 | 11 | 48.40 | 21 |
| 31 | 16.09 | 5 | 37.53 | 27 | 29.29 | 41 | 10.63 | 24 | 7.27 | 10 | 48.61 | 20 |
| Juni 1 | 16.14 | 5 | 37.80 | 27 | 29.70 | 46 | 10.87 | 24 | 7.37 | 11 | 48.81 | 18 |
| 2 | 16.19 | 7 | 38.07 | 27 | 30.16 | 50 | 11.11 | 25 | 7.48 | 12 | 48.99 | 17 |
| 3 | 16.26 | 9 | 38.34 | 29 | 30.66 | 55 | 11.36 | 26 | 7.60 | 12 | 49.16 | 18 |
| 4 | 16.35 | 8 | 38.63 | 30 | 31.21 | 57 | 11.62 | 26 | 7.72 | 14 | 49.34 | 21 |
| 5 | 16.43 | 7 | 38.93 | 32 | 31.78 | 58 | 11.88 | 29 | 7.86 | 13 | 49.55 | 22 |
| 6 | 16.50 | 6 | 39.25 | 35 | 32.36 | 55 | 12.17 | 31 | 7.99 | 14 | 49.77 | 24 |
| 7 | 16.56 | 4 | 39.60 | 35 | 32.91 | 49 | 12.48 | 33 | 8.13 | 13 | 50.01 | 26 |
| 8 | 16.60 | 1 | 39.95 | 36 | 33.40 | 42 | 12.81 | 33 | 8.26 | 12 | 50.27 | 28 |
| 9 | 16.61 | —1 | 40.31 | 35 | 33.82 | 33 | 13.14 | 34 | 8.38 | 12 | 50.55 | 29 |
| 10 | 16.60 | 3 | 40.66 | 34 | 34.15 | 25 | 13.48 | 32 | 8.50 | 10 | 50.84 | 29 |
| 11 | 16.57 | 4 | 41.00 | 32 | 34.40 | 18 | 13.80 | 31 | 8.60 | 10 | 51.13 | 27 |
| 12 | 16.53 | 5 | 41.32 | 30 | 34.58 | 16 | 14.11 | 30 | 8.70 | 10 | 51.40 | 27 |
| 13 | 16.48 | 4 | 41.62 | 29 | 34.74 | 17 | 14.41 | 29 | 8.80 | 8 | 51.67 | 25 |
| 14 | 16.44 | 3 | 41.91 | 28 | 34.91 | 18 | 14.70 | 27 | 8.88 | 9 | 51.92 | 25 |
| 15 | 16.41 | 2 | 42.19 | 27 | 35.09 | 21 | 14.97 | 27 | 8.97 | 9 | 52.17 | 23 |
| 16 | 16.39 | 1 | 42.46 | 28 | 35.30 | 25 | 15.24 | 27 | 9.06 | 10 | 52.40 | 24 |
| 17 | 16.38 | 1 | 42.74 | 30 | 35.55 | 28 | 15.51 | 29 | 9.16 | 10 | 52.64 | 25 |
| 18 | 16.37 | 1 | 43.04 | 32 | 35.83 | 30 | 15.80 | 30 | 9.26 | 10 | 52.89 | 27 |
| 19 | 16.36 | 3 | 43.36 | 33 | 36.13 | 27 | 16.10 | 32 | 9.36 | 11 | 53.16 | 28 |
| 20 | 16.33 | 4 | 43.69 | 35 | 36.40 | 22 | 16.42 | 34 | 9.47 | 10 | 53.44 | 30 |
| 21 | 16.29 | 6 | 44.04 | 35 | 36.62 | 14 | 16.76 | 35 | 9.57 | 10 | 53.74 | 32 |
| 22 | 16.23 | 10 | 44.39 | 36 | 36.76 | 5 | 17.11 | 36 | 9.67 | 9 | 54.06 | 34 |
| 23 | 16.13 | 12 | 44.75 | 34 | 36.81 | —2 | 17.47 | 36 | 9.76 | 8 | 54.40 | 34 |
| 24 | 16.01 | 14 | 45.09 | 33 | 36.79 | 10 | 17.83 | 35 | 9.84 | 7 | 54.74 | 34 |
| 25 | 15.87 | 14 | 45.42 | 31 | 36.69 | 15 | 18.18 | 33 | 9.91 | 6 | 55.08 | 33 |
| 26 | 15.73 | 15 | 45.73 | 29 | 36.54 | 17 | 18.51 | 31 | 9.97 | 6 | 55.41 | 32 |
| 27 | 15.58 | 14 | 46.02 | 27 | 36.37 | 17 | 18.82 | 31 | 10.03 | 5 | 55.73 | 30 |
| 28 | 15.44 | 12 | 46.29 | 27 | 36.20 | 14 | 19.13 | 28 | 10.08 | 6 | 56.03 | 30 |
| 29 | 15.32 | 11 | 46.56 | 27 | 36.06 | 9 | 19.41 | 28 | 10.14 | 6 | 56.33 | 28 |
| 30 | 15.21 | 10 | 46.83 | 29 | 35.97 | 3 | 19.69 | 29 | 10.20 | 6 | 56.61 | 29 |
| Juli 1 | 15.11 | 9 | 47.12 | 29 | 35.94 | 0 | 19.98 | 31 | 10.26 | 7 | 56.90 | 30 |
| 2 | 15.02 | 10 | 47.41 | 31 | 35.94 | 0 | 20.29 | 31 | 10.33 | 8 | 57.20 | 30 |
| 3 | 14.92 | | 47.72 | | 35.94 | | 20.60 | | 10.41 | | 57.50 | |
| O. K. | $+0^s.36 \cos\varphi$ | | | | $+1^s.23 \cos\varphi$ | | | | $+0^s.16 \cos\varphi$ | | | |
| U. K. | $-0.36 \cos\varphi$ | | | | $-1.23 \cos\varphi$ | | | | $-0.16 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | δ Ursae minoris. $4^m.3$. AR. | | δ Ursae minoris. Dekl. | | λ Ursae minoris. $6^m.8$. AR. | | λ Ursae minoris. Dekl. | | 76 Draconis. $6^m.0$. AR. | | 76 Draconis. Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $18^h\ 1^m$ | | $+86°\ 36'$ | | $19^h\ 10^m$ | | $+89°\ 0'$ | | $20^h\ 49^m$ | | $+82°\ 11'$ | |
| | s | | ″ | | s | | ″ | | s | | ″ | |
| Juli 3 | 14.92 | 11 | 47.72 | 32 | 35.94 | 2 | 20.60 | 34 | 10.41 | 7 | 57.50 | 32 |
| 4 | 14.81 | 13 | 48.04 | 33 | 35.92 | 7 | 20.94 | 35 | 10.48 | 6 | 57.82 | 34 |
| 5 | 14.68 | 15 | 48.37 | 33 | 35.85 | 13 | 21.29 | 36 | 10.54 | 7 | 58.16 | 36 |
| 6 | 14.53 | 17 | 48.70 | 34 | 35.72 | 22 | 21.65 | 36 | 10.61 | 6 | 58.52 | 37 |
| 7 | 14.36 | 19 | 49.04 | 32 | 35.50 | 30 | 22.01 | 36 | 10.67 | 5 | 58.89 | 38 |
| 8 | 14.17 | 20 | 49.36 | 31 | 35.20 | 37 | 22.37 | 34 | 10.72 | 4 | 59.27 | 36 |
| 9 | 13.97 | 21 | 49.67 | 29 | 34.83 | 41 | 22.71 | 33 | 10.76 | 2 | 59.63 | 36 |
| 10 | 13.76 | 22 | 49.96 | 27 | 34.42 | 43 | 23.04 | 31 | 10.78 | 3 | 59.99 | 33 |
| 11 | 13.54 | 21 | 50.23 | 25 | 33.99 | 42 | 23.35 | 30 | 10.81 | 2 | 60.32 | 32 |
| 12 | 13.33 | 20 | 50.48 | 24 | 33.57 | 39 | 23.65 | 28 | 10.83 | 3 | 60.64 | 31 |
| 13 | 13.13 | 19 | 50.72 | 24 | 33.18 | 34 | 23.93 | 28 | 10.86 | 3 | 60.95 | 31 |
| 14 | 12.94 | 18 | 50.96 | 26 | 32.84 | 31 | 24.21 | 28 | 10.89 | 3 | 61.26 | 31 |
| 15 | 12.76 | 17 | 51.22 | 27 | 32.53 | 29 | 24.49 | 31 | 10.92 | 4 | 61.57 | 32 |
| 16 | 12.59 | 18 | 51.49 | 28 | 32.24 | 29 | 24.80 | 32 | 10.96 | 4 | 61.89 | 34 |
| 17 | 12.41 | 19 | 51.77 | 30 | 31.95 | 33 | 25.12 | 34 | 11.00 | 4 | 62.23 | 35 |
| 18 | 12.22 | 22 | 52.07 | 30 | 31.62 | 41 | 25.46 | 35 | 11.04 | 3 | 62.58 | 38 |
| 19 | 12.00 | 25 | 52.37 | 31 | 31.21 | 49 | 25.81 | 35 | 11.07 | 3 | 62.96 | 38 |
| 20 | 11.75 | 26 | 52.68 | 30 | 30.72 | 57 | 26.16 | 36 | 11.10 | 2 | 63.34 | 40 |
| 21 | 11.49 | 29 | 52.98 | 29 | 30.15 | 65 | 26.52 | 34 | 11.12 | 1 | 63.74 | 40 |
| 22 | 11.20 | 31 | 53.27 | 27 | 29.50 | 71 | 26.86 | 34 | 11.13 — | 1 | 64.14 | 39 |
| 23 | 10.89 | 30 | 53.54 | 24 | 28.79 | 74 | 27.20 | 31 | 11.12 | 2 | 64.53 | 37 |
| 24 | 10.59 | 29 | 53.78 | 23 | 28.05 | 74 | 27.51 | 29 | 11.10 | 2 | 64.90 | 36 |
| 25 | 10.30 | 29 | 54.01 | 21 | 27.31 | 72 | 27.80 | 27 | 11.08 | 2 | 65.26 | 33 |
| 26 | 10.01 | 27 | 54.22 | 21 | 26.59 | 68 | 28.07 | 27 | 11.06 | 1 | 65.59 | 33 |
| 27 | 9.74 | 26 | 54.43 | 21 | 25.91 | 62 | 28.34 | 27 | 11.05 | 0 | 65.92 | 32 |
| 28 | 9.48 | 25 | 54.64 | 22 | 25.29 | 58 | 28.61 | 27 | 11.05 | 0 | 66.24 | 33 |
| 29 | 9.23 | 24 | 54.86 | 23 | 24.71 | 56 | 28.88 | 29 | 11.05 | 0 | 66.57 | 33 |
| 30 | 8.99 | 25 | 55.09 | 25 | 24.15 | 57 | 29.17 | 31 | 11.05 | 1 | 66.90 | 35 |
| 31 | 8.74 | 27 | 55.34 | 26 | 23.58 | 60 | 29.48 | 32 | 11.06 | 0 | 67.25 | 37 |
| Aug. 1 | 8.47 | 29 | 55.60 | 27 | 22.98 | 66 | 29.80 | 33 | 11.06 | 1 | 67.62 | 38 |
| 2 | 8.18 | 31 | 55.87 | 27 | 22.32 | 74 | 30.13 | 33 | 11.05 | 1 | 68.00 | 39 |
| 3 | 7.87 | 33 | 56.14 | 25 | 21.58 | 82 | 30.46 | 32 | 11.04 | 2 | 68.39 | 39 |
| 4 | 7.54 | 34 | 56.39 | 24 | 20.76 | 88 | 30.78 | 32 | 11.02 | 3 | 68.78 | 40 |
| 5 | 7.20 | 35 | 56.63 | 21 | 19.88 | 93 | 31.10 | 30 | 10.99 | 4 | 69.18 | 38 |
| 6 | 6.85 | 36 | 56.84 | 19 | 18.95 | 97 | 31.40 | 27 | 10.95 | 5 | 69.56 | 36 |
| 7 | 6.49 | 35 | 57.03 | 18 | 17.98 | 96 | 31.67 | 25 | 10.90 | 5 | 69.92 | 34 |
| 8 | 6.14 | 33 | 57.21 | 16 | 17.02 | 93 | 31.92 | 24 | 10.85 | 5 | 70.26 | 33 |
| 9 | 5.81 | | 57.37 | | 16.09 | | 32.16 | | 10.80 | | 70.59 | |
| O. K. | $+ 0^s.36 \cos \varphi$ | | | | $+ 1^s.23 \cos \varphi$ | | | | $+ 0^s.16 \cos \varphi$ | | | |
| U. K. | $- 0.36 \cos \varphi$ | | | | $- 1.23 \cos \varphi$ | | | | $- 0.16 \cos \varphi$ | | | |

## Obere Kulmination.

| 1911 | δ Ursae minoris. $4^m.3$. | | | | λ Ursae minoris. $6^m.8$. | | | | 76 Draconis. $6^m.0$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | $18^h\ 0^m$ | | $+86°\ 36'$ | | $19^h\ 9^m$ | | $+89°\ 0'$ | | $20^h\ 49^m$ | | $+82°\ 12'$ | |
| Aug. 9 | 65.81 | 32 | 57.37 | 16 | 76.09 | 88 | 32.16 | 24 | 10.80 | 5 | 10.59 | 33 |
| 10 | 65.49 | 31 | 57.53 | 17 | 75.21 | 84 | 32.40 | 24 | 10.75 | 4 | 10.92 | 31 |
| 11 | 65.18 | 31 | 57.70 | 18 | 74.37 | 82 | 32.64 | 25 | 10.71 | 3 | 11.23 | 32 |
| 12 | 64.87 | 30 | 57.88 | 19 | 73.55 | 80 | 32.89 | 27 | 10.68 | 3 | 11.55 | 34 |
| 13 | 64.57 | 32 | 58.07 | 20 | 72.75 | 83 | 33.16 | 28 | 10.65 | 3 | 11.89 | 36 |
| 14 | 64.25 | 33 | 58.27 | 21 | 71.92 | 88 | 33.44 | 28 | 10.62 | 3 | 12.25 | 37 |
| 15 | 63.92 | 36 | 58.48 | 22 | 71.04 | 95 | 33.72 | 30 | 10.59 | 4 | 12.62 | 39 |
| 16 | 63.56 | 38 | 58.70 | 21 | 70.09 | 103 | 34.02 | 30 | 10.55 | 6 | 13.01 | 39 |
| 17 | 63.18 | 40 | 58.91 | 20 | 69.06 | 112 | 34.32 | 30 | 10.49 | 6 | 13.40 | 39 |
| 18 | 62.78 | 42 | 59.11 | 17 | 67.94 | 118 | 34.62 | 28 | 10.43 | 7 | 13.79 | 38 |
| 19 | 62.36 | 42 | 59.28 | 15 | 66.76 | 123 | 34.90 | 25 | 10.36 | 8 | 14.17 | 37 |
| 20 | 61.94 | 42 | 59.43 | 14 | 65.53 | 123 | 35.15 | 23 | 10.28 | 9 | 14.54 | 35 |
| 21 | 61.52 | 41 | 59.57 | 11 | 64.30 | 120 | 35.38 | 22 | 10.19 | 9 | 14.89 | 33 |
| 22 | 61.11 | 39 | 59.68 | 11 | 63.10 | 117 | 35.60 | 20 | 10.10 | 8 | 15.22 | 31 |
| 23 | 60.72 | 37 | 59.79 | 11 | 61.93 | 111 | 35.80 | 20 | 10.02 | 8 | 15.53 | 30 |
| 24 | 60.35 | 35 | 59.90 | 11 | 60.82 | 106 | 36.00 | 20 | 9.94 | 8 | 15.83 | 31 |
| 25 | 60.00 | 35 | 60.01 | 12 | 59.76 | 102 | 36.20 | 21 | 9.86 | 7 | 16.14 | 31 |
| 26 | 59.65 | 35 | 60.13 | 14 | 58.74 | 101 | 36.41 | 22 | 9.79 | 6 | 16.45 | 33 |
| 27 | 59.30 | 37 | 60.27 | 15 | 57.73 | 103 | 36.63 | 24 | 9.73 | 6 | 16.78 | 33 |
| 28 | 58.93 | 37 | 60.42 | 15 | 56.70 | 108 | 36.87 | 25 | 9.67 | 6 | 17.11 | 35 |
| 29 | 58.56 | 39 | 60.57 | 16 | 55.62 | 115 | 37.12 | 25 | 9.61 | 8 | 17.46 | 36 |
| 30 | 58.17 | 42 | 60.73 | 15 | 54.47 | 121 | 37.37 | 25 | 9.53 | 8 | 17.82 | 36 |
| 31 | 57.75 | 44 | 60.88 | 13 | 53.26 | 128 | 37.62 | 24 | 9.45 | 10 | 18.18 | 37 |
| Sept. 1 | 57.31 | 44 | 61.01 | 11 | 51.98 | 135 | 37.86 | 21 | 9.35 | 10 | 18.55 | 35 |
| 2 | 56.87 | 44 | 61.12 | 9 | 50.63 | 137 | 38.07 | 20 | 9.25 | 12 | 18.90 | 33 |
| 3 | 56.43 | 44 | 61.21 | 6 | 49.26 | 137 | 38.27 | 18 | 9.13 | 11 | 19.23 | 31 |
| 4 | 55.99 | 43 | 61.27 | 5 | 47.89 | 134 | 38.45 | 17 | 9.02 | 12 | 19.54 | 30 |
| 5 | 55.56 | 40 | 61.32 | 4 | 46.55 | 130 | 38.62 | 15 | 8.90 | 11 | 19.84 | 27 |
| 6 | 55.16 | 40 | 61.36 | 5 | 45.25 | 125 | 38.77 | 14 | 8.79 | 11 | 20.11 | 27 |
| 7 | 54.76 | 38 | 61.41 | 6 | 44.00 | 121 | 38.91 | 15 | 8.68 | 10 | 20.38 | 27 |
| 8 | 54.38 | 38 | 61.47 | 7 | 42.79 | 119 | 39.06 | 17 | 8.58 | 9 | 20.65 | 29 |
| 9 | 54.00 | 39 | 61.54 | 8 | 41.60 | 118 | 39.23 | 17 | 8.49 | 10 | 20.94 | 29 |
| 10 | 53.61 | 40 | 61.62 | 9 | 40.42 | 122 | 39.40 | 19 | 8.39 | 9 | 21.23 | 31 |
| 11 | 53.21 | 41 | 61.71 | 8 | 39.20 | 128 | 39.59 | 21 | 8.30 | 10 | 21.54 | 32 |
| 12 | 52.80 | 44 | 61.79 | 9 | 37.92 | 136 | 39.80 | 20 | 8.20 | 12 | 21.86 | 33 |
| 13 | 52.36 | 46 | 61.88 | 9 | 36.56 | 143 | 40.00 | 20 | 8.08 | 12 | 22.19 | 33 |
| 14 | 51.90 | 47 | 61.97 | 6 | 35.13 | 150 | 40.20 | 18 | 7.96 | 13 | 22.52 | 33 |
| 15 | 51.43 | | 62.03 | | 33.63 | | 40.38 | | 7.83 | | 22.85 | |
| O. K. | $+ 0^s.36 \cos\varphi$ | | | | $+ 1^s.23 \cos\varphi$ | | | | $+ 0^s.16 \cos\varphi$ | | | |
| U. K. | $- 0\ .36 \cos\varphi$ | | | | $- 1\ .23 \cos\varphi$ | | | | $- 0\ .16 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | δ Ursae minoris. 4ᵐ.3. | | | | λ Ursae minoris. 6ᵐ.8. | | | | 76 Draconis. 6ᵐ.0. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | 18ʰ 0ᵐ | | +86° 36′ | | 19ʰ 8ᵐ | | +89° 0′ | | 20ʰ 49ᵐ | | +82° 12′ | |
| Sept. 15 | 51.43 | 48 | 62.03 | 3 | 93.63 | 154 | 40.38 | 16 | 7.83 | 13 | 22.85 | 32 |
| 16 | 50.95 | 47 | 62.06 | 1 | 92.09 | 155 | 40.54 | 13 | 7.70 | 14 | 23.17 | 29 |
| 17 | 50.48 | 47 | 62.07 | 0 | 90.54 | 154 | 40.67 | 12 | 7.56 | 15 | 23.46 | 27 |
| 18 | 50.01 | 45 | 62.07 | 2 | 89.00 | 150 | 40.79 | 11 | 7.41 | 15 | 23.73 | 25 |
| 19 | 49.56 | 43 | 62.05 | 2 | 87.50 | 144 | 40.90 | 9 | 7.26 | 14 | 23.98 | 24 |
| 20 | 49.13 | 41 | 62.03 | 2 | 86.06 | 138 | 40.99 | 8 | 7.12 | 13 | 24.22 | 23 |
| 21 | 48.72 | 40 | 62.01 | 1 | 84.68 | 133 | 41.07 | 10 | 6.99 | 12 | 24.45 | 23 |
| 22 | 48.32 | 40 | 62.00 | — 1 | 83.35 | 130 | 41.17 | 11 | 6.87 | 13 | 24.68 | 24 |
| 23 | 47.92 | 39 | 62.01 | 1 | 82.05 | 129 | 41.28 | 12 | 6.74 | 12 | 24.92 | 25 |
| 24 | 47.53 | 41 | 62.02 | 3 | 80.76 | 132 | 41.40 | 13 | 6.62 | 12 | 25.17 | 27 |
| 25 | 47.12 | 42 | 62.05 | 3 | 79.44 | 138 | 41.53 | 14 | 6.50 | 13 | 25.44 | 28 |
| 26 | 46.70 | 45 | 62.08 | 1 | 78.06 | 145 | 41.67 | 14 | 6.37 | 13 | 25.72 | 28 |
| 27 | 46.25 | 45 | 62.09 | 1 | 76.61 | 151 | 41.81 | 13 | 6.24 | 14 | 26.00 | 27 |
| 28 | 45.80 | 47 | 62.10 | — 1 | 75.10 | 156 | 41.94 | 11 | 6.10 | 15 | 26.27 | 27 |
| 29 | 45.33 | 47 | 62.09 | 4 | 73.54 | 159 | 42.05 | 9 | 5.95 | 16 | 26.54 | 25 |
| 30 | 44.86 | 46 | 62.05 | 6 | 71.95 | 160 | 42.14 | 6 | 5.79 | 17 | 26.79 | 23 |
| Okt. 1 | 44.40 | 45 | 61.99 | 7 | 70.35 | 157 | 42.20 | 4 | 5.62 | 17 | 27.02 | 21 |
| 2 | 43.95 | 44 | 61.92 | 9 | 68.78 | 153 | 42.24 | 3 | 5.45 | 16 | 27.23 | 19 |
| 3 | 43.51 | 41 | 61.83 | 9 | 67.25 | 146 | 42.27 | 3 | 5.29 | 16 | 27.42 | 18 |
| 4 | 43.10 | 40 | 61.74 | 9 | 65.79 | 142 | 42.30 | 3 | 5.13 | 15 | 27.60 | 18 |
| 5 | 42.70 | 40 | 61.65 | 7 | 64.37 | 138 | 42.33 | 3 | 4.98 | 14 | 27.78 | 18 |
| 6 | 42.30 | 39 | 61.58 | 6 | 62.99 | 136 | 42.36 | 5 | 4.84 | 13 | 27.96 | 18 |
| 7 | 41.91 | 39 | 61.52 | 5 | 61.63 | 137 | 42.41 | 6 | 4.71 | 14 | 28.14 | 20 |
| 8 | 41.52 | 42 | 61.47 | 4 | 60.26 | 141 | 42.47 | 7 | 4.57 | 15 | 28.34 | 21 |
| 9 | 41.10 | 43 | 61.43 | 4 | 58.85 | 147 | 42.54 | 7 | 4.42 | 15 | 28.55 | 22 |
| 10 | 40.67 | 45 | 61.39 | 6 | 57.38 | 155 | 42.61 | 7 | 4.27 | 16 | 28.77 | 23 |
| 11 | 40.22 | 46 | 61.33 | 6 | 55.83 | 161 | 42.68 | 6 | 4.11 | 16 | 29.00 | 22 |
| 12 | 39.76 | 47 | 61.27 | 9 | 54.22 | 166 | 42.74 | 4 | 3.95 | 17 | 29.22 | 20 |
| 13 | 39.29 | 46 | 61.18 | 11 | 52.56 | 167 | 42.78 | 2 | 3.78 | 18 | 29.42 | 20 |
| 14 | 38.83 | 46 | 61.07 | 14 | 50.89 | 165 | 42.80 | — 1 | 3.60 | 19 | 29.62 | 17 |
| 15 | 38.37 | 44 | 60.93 | 14 | 49.24 | 162 | 42.79 | 3 | 3.41 | 19 | 29.79 | 14 |
| 16 | 37.93 | 42 | 60.79 | 16 | 47.62 | 157 | 42.76 | 4 | 3.22 | 18 | 29.93 | 13 |
| 17 | 37.51 | 40 | 60.63 | 16 | 46.05 | 149 | 42.72 | 3 | 3.04 | 18 | 30.06 | 12 |
| 18 | 37.11 | 38 | 60.47 | 15 | 44.56 | 142 | 42.69 | 4 | 2.86 | 17 | 30.18 | 11 |
| 19 | 36.73 | 37 | 60.32 | 14 | 43.14 | 138 | 42.65 | 4 | 2.69 | 15 | 30.29 | 12 |
| 20 | 36.36 | 36 | 60.18 | 12 | 41.76 | 135 | 42.61 | 2 | 2.54 | 16 | 30.41 | 12 |
| 21 | 36.00 | 37 | 60.06 | 12 | 40.41 | 137 | 42.59 | 1 | 2.38 | 15 | 30.53 | 13 |
| 22 | 35.63 | | 59.94 | | 39.04 | | 42.58 | | 2.23 | | 30.66 | |
| O. K. | + 0ˢ.36 cos φ | | | | + 1ˢ.24 cos φ | | | | + 0ˢ.16 cos φ | | | |
| U. K. | — 0 .36 cos φ | | | | — 1 .24 cos φ | | | | — 0 .16 cos φ | | | |

## Obere Kulmination.

| 1911 | δ Ursae minoris. 4m.3. AR. | Diff. | δ Ursae minoris. Dekl. | Diff. | λ Ursae minoris. 6m.8. AR. | Diff. | λ Ursae minoris. Dekl. | Diff. | 76 Draconis. 6m.0. AR. | Diff. | 76 Draconis. Dekl. | Diff. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 18h 0m | | +86° 36′ | | 19h 7m | | +89° 0′ | | 20h 48m | | +82° 12′ | |
| Okt. 22 | 35.63 | 39 | 59.94 | 11 | 99.04 | 140 | 42.58 | 0 | 62.23 | 15 | 30.66 | 15 |
| 23 | 35.24 | 40 | 59.83 | 11 | 97.64 | 145 | 42.58 | 0 | 62.08 | 16 | 30.81 | 15 |
| 24 | 34.84 | 42 | 59.72 | 13 | 96.19 | 151 | 42.58 | 0 | 61.92 | 17 | 30.96 | 15 |
| 25 | 34.42 | 42 | 59.59 | 14 | 94.68 | 155 | 42.58 | 2 | 61.75 | 18 | 31.11 | 14 |
| 26 | 34.00 | 42 | 59.45 | 16 | 93.13 | 159 | 42.56 | 4 | 61.57 | 18 | 31.25 | 13 |
| 27 | 33.58 | 42 | 59.29 | 18 | 91.54 | 159 | 42.52 | 7 | 61.39 | 19 | 31.38 | 11 |
| 28 | 33.16 | 41 | 59.11 | 20 | 89.95 | 157 | 42.45 | 8 | 61.20 | 19 | 31.49 | 8 |
| 29 | 32.75 | 38 | 58.91 | 22 | 88.38 | 153 | 42.37 | 11 | 61.01 | 19 | 31.57 | 6 |
| 30 | 32.37 | 37 | 58.69 | 22 | 86.85 | 146 | 42.26 | 12 | 60.82 | 18 | 31.63 | 4 |
| 31 | 32.00 | 35 | 58.47 | 22 | 85.39 | 139 | 42.14 | 12 | 60.64 | 17 | 31.67 | 4 |
| Nov. 1 | 31.65 | 33 | 58.25 | 22 | 84.00 | 134 | 42.02 | 11 | 60.47 | 17 | 31.71 | 4 |
| 2 | 31.32 | 33 | 58.03 | 20 | 82.66 | 130 | 41.91 | 10 | 60.30 | 16 | 31.75 | 4 |
| 3 | 30.99 | 32 | 57.83 | 18 | 81.36 | 129 | 41.81 | 8 | 60.14 | 16 | 31.79 | 6 |
| 4 | 30.67 | 34 | 57.65 | 18 | 80.07 | 131 | 41.73 | 7 | 59.98 | 16 | 31.85 | 7 |
| 5 | 30.33 | 35 | 57.47 | 17 | 78.76 | 136 | 41.66 | 8 | 59.82 | 17 | 31.92 | 8 |
| 6 | 29.98 | 36 | 57.30 | 18 | 77.40 | 142 | 41.58 | 7 | 59.65 | 17 | 32.00 | 8 |
| 7 | 29.62 | 38 | 57.12 | 19 | 75.98 | 148 | 41.51 | 8 | 59.48 | 18 | 32.08 | 8 |
| 8 | 29.24 | 39 | 56.93 | 21 | 74.50 | 152 | 41.43 | 9 | 59.30 | 18 | 32.16 | 6 |
| 9 | 28.85 | 39 | 56.72 | 23 | 72.98 | 154 | 41.34 | 11 | 59.12 | 19 | 32.22 | 6 |
| 10 | 28.46 | 38 | 56.49 | 25 | 71.44 | 153 | 41.23 | 14 | 58.93 | 19 | 32.28 | 3 |
| 11 | 28.08 | 36 | 56.24 | 27 | 69.91 | 149 | 41.09 | 15 | 58.74 | 20 | 32.31 | 1 |
| 12 | 27.72 | 33 | 55.97 | 28 | 68.42 | 143 | 40.94 | 18 | 58.54 | 19 | 32.32 | 1 |
| 13 | 27.39 | 31 | 55.69 | 28 | 66.99 | 135 | 40.76 | 19 | 58.35 | 19 | 32.31 | 3 |
| 14 | 27.08 | 30 | 55.41 | 27 | 65.64 | 128 | 40.57 | 18 | 58.16 | 18 | 32.28 | 3 |
| 15 | 26.78 | 27 | 55.14 | 27 | 64.36 | 121 | 40.39 | 18 | 57.98 | 17 | 32.25 | 4 |
| 16 | 26.51 | 26 | 54.87 | 25 | 63.15 | 116 | 40.21 | 17 | 57.81 | 16 | 32.21 | 4 |
| 17 | 26.25 | 26 | 54.62 | 24 | 61.99 | 115 | 40.04 | 15 | 57.65 | 15 | 32.17 | 3 |
| 18 | 25.99 | 28 | 54.38 | 23 | 60.84 | 117 | 39.89 | 14 | 57.50 | 16 | 32.14 | 1 |
| 19 | 25.71 | 28 | 54.15 | 23 | 59.67 | 120 | 39.75 | 14 | 57.34 | 15 | 32.13 | 1 |
| 20 | 25.43 | 30 | 53.92 | 23 | 58.47 | 125 | 39.61 | 14 | 57.19 | 17 | 32.12 | 0 |
| 21 | 25.13 | 31 | 53.69 | 24 | 57.22 | 129 | 39.47 | 15 | 57.02 | 17 | 32.12 | 1 |
| 22 | 24.82 | 30 | 53.45 | 27 | 55.93 | 133 | 39.32 | 17 | 56.85 | 17 | 32.11 | 2 |
| 23 | 24.52 | 30 | 53.18 | 29 | 54.60 | 133 | 39.15 | 19 | 56.68 | 18 | 32.09 | 5 |
| 24 | 24.22 | 29 | 52.89 | 30 | 53.27 | 131 | 38.96 | 22 | 56.50 | 19 | 32.04 | 6 |
| 25 | 23.93 | 26 | 52.59 | 33 | 51.96 | 126 | 38.74 | 23 | 56.31 | 19 | 31.98 | 9 |
| 26 | 23.67 | 25 | 52.26 | 33 | 50.70 | 119 | 38.51 | 25 | 56.12 | 18 | 31.89 | 11 |
| 27 | 23.42 | 22 | 51.93 | 34 | 49.51 | 111 | 38.26 | 25 | 55.94 | 17 | 31.78 | 12 |
| 28 | 23.20 | | 51.59 | | 48.40 | | 38.01 | | 55.77 | | 31.66 | |
| O. K. | + 0s.36 cos φ | | | | + 1s.24 cos φ | | | | + 0s.16 cos φ | | | |
| U. K. | — 0 .36 cos φ | | | | — 1 .24 cos φ | | | | — 0 .16 cos φ | | | |

## Obere Kulmination.

| 1911 | δ Ursae minoris. $4^m.3$. AR. | | Dekl. | | λ Ursae minoris. $6^m.8$. AR. | | Dekl. | | 76 Draconis. $6^m.0$. AR. | | Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $18^h\ 0^m$ | | $+86°\ 36'$ | | $19^h\ 7^m$ | | $+89°\ 0'$ | | $20^h\ 48^m$ | | $+82°\ 12'$ | |
| Nov. 28 | $23^s.20$ | 21 | $51''.59$ | 32 | $48^s.40$ | 104 | $38''.01$ | 25 | $55^s.77$ | 17 | $31''.66$ | 12 |
| 29 | 22.99 | 19 | 51.27 | 31 | 47.36 | 99 | 37.76 | 24 | 55.60 | 15 | 31.54 | 11 |
| 30 | 22.80 | 19 | 50.96 | 30 | 46.37 | 95 | 37.52 | 22 | 55.45 | 14 | 31.43 | 10 |
| Dez. 1 | 22.61 | 19 | 50.66 | 27 | 45.42 | 95 | 37.30 | 21 | 55.31 | 14 | 31.33 | 10 |
| 2 | 22.42 | 19 | 50.39 | 27 | 44.47 | 99 | 37.09 | 20 | 55.17 | 15 | 31.23 | 9 |
| 3 | 22.23 | 22 | 50.12 | 27 | 43.48 | 104 | 36.89 | 20 | 55.02 | 15 | 31.14 | 7 |
| 4 | 22.01 | 23 | 49.85 | 28 | 42.44 | 108 | 36.69 | 20 | 54.87 | 15 | 31.07 | 8 |
| 5 | 21.78 | 24 | 49.57 | 30 | 41.36 | 112 | 36.49 | 22 | 54.72 | 17 | 30.99 | 8 |
| 6 | 21.54 | 23 | 49.27 | 31 | 40.24 | 114 | 36.27 | 23 | 54.55 | 18 | 30.91 | 10 |
| 7 | 21.31 | 23 | 48.96 | 34 | 39.10 | 114 | 36.04 | 26 | 54.37 | 17 | 30.81 | 11 |
| 8 | 21.08 | 22 | 48.62 | 35 | 37.96 | 110 | 35.78 | 27 | 54.20 | 16 | 30.70 | 14 |
| 9 | 20.86 | 19 | 48.27 | 37 | 36.86 | 104 | 35.51 | 30 | 54.04 | 17 | 30.56 | 17 |
| 10 | 20.67 | 16 | 47.90 | 37 | 35.82 | 96 | 35.21 | 30 | 53.87 | 17 | 30.39 | 18 |
| 11 | 20.51 | 13 | 47.53 | 36 | 34.86 | 87 | 34.91 | 30 | 53.70 | 15 | 30.21 | 20 |
| 12 | 20.38 | 11 | 47.17 | 35 | 33.99 | 79 | 34.61 | 30 | 53.55 | 14 | 30.01 | 20 |
| 13 | 20.27 | 10 | 46.82 | 34 | 33.20 | 72 | 34.31 | 29 | 53.41 | 13 | 29.81 | 20 |
| 14 | 20.17 | 10 | 46.48 | 31 | 32.48 | 68 | 34.02 | 27 | 53.28 | 12 | 29.61 | 18 |
| 15 | 20.07 | 10 | 46.17 | 31 | 31.80 | 69 | 33.75 | 26 | 53.16 | 12 | 29.43 | 17 |
| 16 | 19.97 | 11 | 45.86 | 30 | 31.11 | 71 | 33.49 | 25 | 53.04 | 13 | 29.26 | 17 |
| 17 | 19.86 | 12 | 45.56 | 30 | 30.40 | 74 | 33.24 | 25 | 52.91 | 13 | 29.09 | 15 |
| 18 | 19.74 | 13 | 45.26 | 31 | 29.66 | 78 | 32.99 | 25 | 52.78 | 14 | 28.94 | 16 |
| 19 | 19.61 | 12 | 44.95 | 32 | 28.88 | 81 | 32.74 | 27 | 52.64 | 13 | 28.78 | 17 |
| 20 | 19.49 | 12 | 44.63 | 34 | 28.07 | 82 | 32.47 | 29 | 52.51 | 14 | 28.61 | 19 |
| 21 | 19.37 | 12 | 44.29 | 37 | 27.25 | 80 | 32.18 | 31 | 52.37 | 15 | 28.42 | 21 |
| 22 | { 19.25 | 10 | { 43.92 | 37 | 26.45 | 74 | 31.87 | 33 | 52.22 | 14 | 28.21 | 23 |
| | { 19.15 | 7 | { 43.55 | 39 | | | | | | | | |
| 23 | 19.08 | 5 | 43.16 | 38 | 25.71 | 68 | 31.54 | 35 | 52.08 | 14 | 27.98 | 25 |
| 24 | 19.03 | 3 | 42.78 | 38 | 25.03 | 60 | 31.19 | 35 | 51.94 | 13 | 27.73 | 26 |
| 25 | 19.00 | 1 | 42.40 | 36 | 24.43 | 51 | 30.84 | 34 | 51.81 | 12 | 27.47 | 27 |
| 26 | 18.99 | —1 | 42.04 | 34 | 23.92 | 44 | 30.50 | 34 | 51.69 | 11 | 27.20 | 27 |
| 27 | 19.00 | 0 | 41.70 | 33 | 23.48 | 40 | 30.16 | 31 | 51.58 | 11 | 26.93 | 26 |
| 28 | 19.00 | 1 | 41.37 | 32 | 23.08 | 37 | 29.85 | 30 | 51.47 | 9 | 26.67 | 24 |
| 29 | 18.99 | 2 | 41.05 | 30 | 22.71 | 39 | 29.55 | 30 | 51.38 | 9 | 26.43 | 23 |
| 30 | 18.97 | 2 | 40.75 | 31 | 22.32 | 42 | 29.25 | 28 | 51.29 | 10 | 26.20 | 22 |
| 31 | 18.95 | 4 | 40.44 | 31 | 21.90 | 46 | 28.97 | 28 | 51.19 | 10 | 25.98 | 21 |
| 32 | 18.91 | | 40.13 | | 21.44 | | 28.69 | | 51.09 | | 25.77 | |
| O. K. | $+ 0^s.36 \cos\varphi$ | | | | $+ 1^s.23 \cos\varphi$ | | | | $+ 0^s.16 \cos\varphi$ | | | |
| U. K. | $- 0\ .36 \cos\varphi$ | | | | $- 1\ .23 \cos\varphi$ | | | | $- 0\ .16 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | Octantis 4 G. 6ᵐ. AR. | | Dekl. | | ζ Octantis. 6ᵐ–5ᵐ. AR. | | Dekl. | | ι Octantis. 6ᵐ–5ᵐ. AR. | | Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1ʰ 42ᵐ | | −85° 13′ | | 9ʰ 9ᵐ | | −85° 18′ | | 12ʰ 45ᵐ | | −84° 38′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | |
| Jan. 0 | 35.24 | 26 | 31.34 | 1 | 58.79 | 10 | 9.14 | 32 | 25.62 | 23 | 1.06 | 11 |
| 1 | 34.98 | 25 | 31.33 | 1 | 58.89 | 9 | 9.46 | 30 | 25.85 | 23 | 1.17 | 11 |
| 2 | 34.73 | 23 | 31.32 | 1 | 58.98 | 9 | 9.76 | 30 | 26.08 | 23 | 1.28 | 10 |
| 3 | 34.50 | 24 | 31.31 | — 1 | 59.07 | 10 | 10.06 | 29 | 26.31 | 22 | 1.38 | 10 |
| 4 | 34.26 | 24 | 31.32 | 2 | 59.17 | 11 | 10.35 | 31 | 26.53 | 24 | 1.48 | 8 |
| 5 | 34.02 | 25 | 31.34 | 2 | 59.28 | 12 | 10.66 | 31 | 26.77 | 25 | 1.56 | 9 |
| 6 | 33.77 | 27 | 31.36 | 1 | 59.40 | 13 | 10.97 | 34 | 27.02 | 25 | 1.65 | 9 |
| 7 | 33.50 | 28 | 31.37 | 1 | 59.53 | 11 | 11.31 | 36 | 27.27 | 26 | 1.74 | 11 |
| 8 | 33.22 | 29 | 31.38 | — 1 | 59.64 | 11 | 11.67 | 38 | 27.53 | 28 | 1.85 | 13 |
| 9 | 32.93 | 30 | 31.37 | 3 | 59.75 | 9 | 12.05 | 39 | 27.81 | 28 | 1.98 | 15 |
| 10 | 32.63 | 31 | 31.34 | 5 | 59.84 | 9 | 12.44 | 40 | 28.09 | 27 | 2.13 | 18 |
| 11 | 32.32 | 30 | 31.29 | 6 | 59.93 | 7 | 12.84 | 40 | 28.36 | 25 | 2.31 | 20 |
| 12 | 32.02 | 28 | 31.23 | 9 | 60.00 | 4 | 13.24 | 39 | 28.61 | 24 | 2.51 | 20 |
| 13 | 31.74 | 27 | 31.14 | 10 | 60.04 | 3 | 13.63 | 37 | 28.85 | 23 | 2.71 | 20 |
| 14 | 31.47 | 26 | 31.04 | 9 | 60.07 | 3 | 14.00 | 35 | 29.08 | 22 | 2.91 | 20 |
| 15 | 31.21 | 25 | 30.95 | 10 | 60.10 | 3 | 14.35 | 35 | 29.30 | 22 | 3.11 | 19 |
| 16 | 30.96 | 24 | 30.85 | 9 | 60.13 | 3 | 14.70 | 34 | 29.52 | 21 | 3.30 | 19 |
| 17 | 30.72 | 24 | 30.76 | 8 | 60.16 | 4 | 15.04 | 33 | 29.73 | 21 | 3.49 | 17 |
| 18 | 30.48 | 24 | 30.68 | 7 | 60.20 | 5 | 15.37 | 33 | 29.94 | 22 | 3.66 | 16 |
| 19 | 30.24 | 26 | 30.61 | 5 | 60.25 | 6 | 15.70 | 35 | 30.16 | 23 | 3.82 | 16 |
| 20 | 29.98 | 27 | 30.56 | 6 | 60.31 | 7 | 16.05 | 36 | 30.39 | 24 | 3.98 | 18 |
| 21 | 29.71 | 28 | 30.50 | 7 | 60.38 | 5 | 16.41 | 39 | 30.63 | 25 | 4.16 | 18 |
| 22 | 29.43 | 29 | 30.43 | 9 | 60.43 | 5 | 16.80 | 39 | 30.88 | 26 | 4.34 | 20 |
| 23 | 29.14 | 29 | 30.34 | 10 | 60.48 | 4 | 17.19 | 40 | 31.14 | 25 | 4.54 | 23 |
| 24 | 28.85 | 29 | 30.24 | 13 | 60.52 | 1 | 17.59 | 41 | 31.39 | 24 | 4.77 | 24 |
| 25 | 28.56 | 28 | 30.11 | 15 | 60.53 | — 1 | 18.00 | 41 | 31.63 | 23 | 5.01 | 26 |
| 26 | 28.28 | 27 | 29.96 | 16 | 60.52 | 2 | 18.41 | 40 | 31.86 | 22 | 5.27 | 27 |
| 27 | 28.01 | 26 | 29.80 | 17 | 60.50 | 3 | 18.81 | 38 | 32.08 | 20 | 5.54 | 27 |
| 28 | 27.75 | 24 | 29.63 | 18 | 60.47 | 4 | 19.19 | 36 | 32.28 | 19 | 5.81 | 27 |
| 29 | 27.51 | 23 | 29.45 | 18 | 60.43 | 3 | 19.55 | 35 | 32.47 | 18 | 6.08 | 26 |
| 30 | 27.28 | 23 | 29.27 | 17 | 60.40 | 3 | 19.90 | 35 | 32.65 | 18 | 6.34 | 24 |
| 31 | 27.05 | 22 | 29.10 | 15 | 60.37 | 2 | 20.25 | 34 | 32.83 | 19 | 6.58 | 23 |
| Febr. 1 | 26.83 | 24 | 28.95 | 14 | 60.35 | 2 | 20.59 | 36 | 33.02 | 20 | 6.81 | 24 |
| 2 | 26.59 | 24 | 28.81 | 15 | 60.33 | 1 | 20.95 | 36 | 33.22 | 21 | 7.05 | 23 |
| 3 | 26.35 | 26 | 28.66 | 15 | 60.32 | 1 | 21.31 | 38 | 33.43 | 22 | 7.28 | 25 |
| 4 | 26.09 | 27 | 28.51 | 15 | 60.31 | 1 | 21.69 | 40 | 33.65 | 22 | 7.53 | 27 |
| 5 | 25.82 | 28 | 28.36 | 18 | 60.30 | 3 | 22.09 | 42 | 33.87 | 23 | 7.80 | 29 |
| 6 | 25.54 | | 28.18 | | 60.27 | | 22.51 | | 34.10 | | 8.09 | |
| O. K. | $+ 0^s.26 \cos\varphi$ | | | | $+ 0^s.26 \cos\varphi$ | | | | $+ 0^s.23 \cos\varphi$ | | | |
| U. K. | $- 0.26 \cos\varphi$ | | | | $- 0.26 \cos\varphi$ | | | | $- 0.23 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | Octantis 4 G. 6^m^. | | | | ζ Octantis. 6^m^–5^m^. | | | | ι Octantis. 6^m^–5^m^. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | 1^h^ 42^m^ | | –85° 13′ | | 9^h^ 9^m^ | | –85° 18′ | | 12^h^ 45^m^ | | –84° 38′ | |
| Febr. 6 | 25.54 | 29 | 28.18 | 20 | 60.27 | 4 | 22.51 | 42 | 34.10 | 22 | 8.09 | 31 |
| 7 | 25.25 | 27 | 27.98 | 22 | 60.23 | 6 | 22.93 | 42 | 34.32 | 21 | 8.40 | 32 |
| 8 | 24.98 | 27 | 27.76 | 24 | 60.17 | 8 | 23.35 | 41 | 34.53 | 19 | 8.72 | 34 |
| 9 | 24.71 | 25 | 27.52 | 25 | 60.09 | 9 | 23.76 | 41 | 34.72 | 18 | 9.06 | 34 |
| 10 | 24.46 | 23 | 27.27 | 26 | 60.00 | 10 | 24.17 | 38 | 34.90 | 16 | 9.40 | 34 |
| 11 | 24.23 | 22 | 27.01 | 25 | 59.90 | 10 | 24.55 | 36 | 35.06 | 16 | 9.74 | 33 |
| 12 | 24.01 | 21 | 26.76 | 25 | 59.80 | 10 | 24.91 | 34 | 35.22 | 15 | 10.07 | 31 |
| 13 | 23.80 | 20 | 26.51 | 23 | 59.70 | 9 | 25.25 | 34 | 35.37 | 14 | 10.38 | 31 |
| 14 | 23.60 | 20 | 26.28 | 23 | 59.61 | 9 | 25.59 | 33 | 35.51 | 16 | 10.69 | 29 |
| 15 | 23.40 | 21 | 26.05 | 21 | 59.52 | 7 | 25.92 | 34 | 35.67 | 16 | 10.98 | 28 |
| 16 | 23.19 | 23 | 25.84 | 21 | 59.45 | 7 | 26.26 | 35 | 35.83 | 18 | 11.26 | 28 |
| 17 | 22.96 | 23 | 25.63 | 21 | 59.38 | 6 | 26.61 | 37 | 36.01 | 18 | 11.54 | 30 |
| 18 | 22.73 | 25 | 25.42 | 22 | 59.32 | 8 | 26.98 | 39 | 36.19 | 18 | 11.84 | 31 |
| 19 | 22.48 | 24 | 25.20 | 24 | 59.24 | 9 | 27.37 | 39 | 36.37 | 18 | 12.15 | 32 |
| 20 | 22.24 | 25 | 24.96 | 26 | 59.15 | 10 | 27.76 | 40 | 36.55 | 17 | 12.47 | 35 |
| 21 | 21.99 | 24 | 24.70 | 28 | 59.05 | 12 | 28.16 | 39 | 36.72 | 17 | 12.82 | 37 |
| 22 | 21.75 | 22 | 24.42 | 30 | 58.93 | 14 | 28.55 | 38 | 36.89 | 15 | 13.19 | 37 |
| 23 | 21.53 | 21 | 24.12 | 31 | 58.79 | 16 | 28.93 | 37 | 37.04 | 13 | 13.56 | 37 |
| 24 | 21.32 | 19 | 23.81 | 32 | 58.63 | 16 | 29.30 | 35 | 37.17 | 12 | 13.93 | 37 |
| 25 | 21.13 | 18 | 23.49 | 32 | 58.47 | 16 | 29.65 | 34 | 37.29 | 11 | 14.30 | 36 |
| 26 | 20.95 | 16 | 23.17 | 30 | 58.31 | 16 | 29.99 | 32 | 37.40 | 10 | 14.66 | 35 |
| 27 | 20.79 | 17 | 22.87 | 28 | 58.15 | 14 | 30.31 | 31 | 37.50 | 11 | 15.01 | 34 |
| 28 | 20.62 | 17 | 22.59 | 28 | 58.01 | 14 | 30.62 | 31 | 37.61 | 12 | 15.35 | 33 |
| März 1 | 20.45 | 18 | 22.31 | 27 | 57.87 | 13 | 30.93 | 33 | 37.73 | 12 | 15.68 | 33 |
| 2 | 20.27 | 19 | 22.04 | 27 | 57.74 | 12 | 31.26 | 33 | 37.85 | 13 | 16.01 | 33 |
| 3 | 20.08 | 20 | 21.77 | 28 | 57.62 | 13 | 31.59 | 35 | 37.98 | 14 | 16.34 | 35 |
| 4 | 19.88 | 21 | 21.49 | 29 | 57.49 | 13 | 31.94 | 37 | 38.12 | 15 | 16.69 | 36 |
| 5 | 19.67 | 21 | 21.20 | 32 | 57.36 | 15 | 32.31 | 38 | 38.27 | 14 | 17.05 | 38 |
| 6 | 19.46 | 21 | 20.88 | 33 | 57.21 | 17 | 32.69 | 37 | 38.41 | 13 | 17.43 | 40 |
| 7 | 19.25 | 20 | 20.55 | 34 | 57.04 | 19 | 33.06 | 37 | 38.54 | 11 | 17.83 | 41 |
| 8 | 19.05 | 18 | 20.21 | 36 | 56.85 | 20 | 33.43 | 36 | 38.65 | 10 | 18.24 | 42 |
| 9 | 18.87 | 17 | 19.85 | 37 | 56.65 | 21 | 33.79 | 33 | 38.75 | 9 | 18.66 | 41 |
| 10 | 18.70 | 15 | 19.48 | 37 | 56.44 | 22 | 34.12 | 31 | 38.84 | 7 | 19.07 | 41 |
| 11 | 18.55 | 13 | 19.11 | 36 | 56.22 | 22 | 34.43 | 30 | 38.91 | 6 | 19.48 | 39 |
| 12 | 18.42 | 13 | 18.75 | 34 | 56.00 | 20 | 34.73 | 28 | 38.97 | 6 | 19.87 | 37 |
| 13 | 18.29 | 12 | 18.41 | 33 | 55.80 | 19 | 35.01 | 28 | 39.03 | 6 | 20.24 | 35 |
| 14 | 18.17 | 13 | 18.08 | 31 | 55.61 | 19 | 35.29 | 27 | 39.09 | 7 | 20.59 | 35 |
| 15 | 18.04 | | 17.77 | | 55.42 | | 35.56 | | 39.16 | | 20.94 | |
| O. K. | + 0^s^.26 cos φ | | | | + 0^s^.26 cos φ | | | | + 0^s^.23 cos φ | | | |
| U. K. | – 0 .26 cos φ | | | | – 0 .26 cos φ | | | | + 0 .23 cos φ | | | |

## Obere Kulmination.

| 1911 | Octantis 4 G. $6^m$. AR. | | Dekl. | | ζ Octantis. $6^m-5^m$. AR. | | Dekl. | | ι Octantis. $6^m-5^m$. AR. | | Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $1^h\ 42^m$ | | −85° 13′ | | $9^h\ 9^m$ | | −85° 18′ | | $12^h\ 45^m$ | | −84° 38′ | |
| März 15 | $18^s.04$ | 14 | 17″.77 | 30 | $55^s.42$ | 17 | 35″.56 | 29 | $39^s.16$ | 8 | 20″.94 | 34 |
| 16 | 17.90 | 14 | 17.47 | 32 | 55.25 | 17 | 35.85 | 29 | 39.24 | 9 | 21.28 | 35 |
| 17 | 17.76 | 16 | 17.15 | 31 | 55.08 | 17 | 36.14 | 30 | 39.33 | 9 | 21.63 | 36 |
| 18 | 17.60 | 16 | 16.84 | 32 | 54.91 | 18 | 36.44 | 32 | 39.42 | 10 | 21.99 | 38 |
| 19 | 17.44 | 16 | 16.52 | 35 | 54.73 | 19 | 36.76 | 32 | 39.52 | 8 | 22.37 | 39 |
| 20 | 17.28 | 16 | 16.17 | 37 | 54.54 | 21 | 37.08 | 33 | 39.60 | 8 | 22.76 | 41 |
| 21 | 17.12 | 14 | 15.80 | 38 | 54.33 | 23 | 37.41 | 31 | 39.68 | 6 | 23.17 | 41 |
| 22 | 16.98 | 12 | 15.42 | 39 | 54.10 | 25 | 37.72 | 29 | 39.74 | 5 | 23.58 | 42 |
| 23 | 16.86 | 12 | 15.03 | 39 | 53.85 | 25 | 38.01 | 28 | 39.79 | 3 | 24.00 | 42 |
| 24 | 16.74 | 10 | 14.64 | 40 | 53.60 | 25 | 38.29 | 26 | 39.82 | 2 | 24.42 | 40 |
| 25 | 16.64 | 8 | 14.24 | 39 | 53.35 | 25 | 38.55 | 24 | 39.84 | 1 | 24.82 | 40 |
| 26 | 16.56 | 7 | 13.85 | 37 | 53.10 | 24 | 38.79 | 22 | 39.85 | 2 | 25.22 | 37 |
| 27 | 16.49 | 7 | 13.48 | 35 | 52.86 | 23 | 39.01 | 22 | 39.87 | 2 | 25.59 | 36 |
| 28 | 16.42 | 8 | 13.13 | 35 | 52.63 | 22 | 39.23 | 23 | 39.89 | 2 | 25.95 | 36 |
| 29 | 16.34 | 8 | 12.78 | 33 | 52.41 | 22 | 39.46 | 24 | 39.91 | 4 | 26.31 | 36 |
| 30 | 16.26 | 10 | 12.45 | 34 | 52.19 | 21 | 39.70 | 25 | 39.95 | 4 | 26.67 | 36 |
| 31 | 16.16 | 11 | 12.11 | 35 | 51.98 | 21 | 39.95 | 27 | 39.99 | 5 | 27.03 | 38 |
| April 1 | 16.05 | 12 | 11.76 | 37 | 51.77 | 23 | 40.22 | 27 | 40.04 | 5 | 27.41 | 39 |
| 2 | 15.93 | 11 | 11.39 | 39 | 51.54 | 24 | 40.49 | 28 | 40.09 | 4 | 27.80 | 41 |
| 3 | 15.82 | 11 | 11.00 | 40 | 51.30 | 26 | 40.77 | 27 | 40.13 | 3 | 28.21 | 43 |
| 4 | 15.71 | 9 | 10.60 | 41 | 51.04 | 27 | 41.04 | 27 | 40.16 | 1 | 28.64 | 43 |
| 5 | 15.62 | 7 | 10.19 | 43 | 50.77 | 28 | 41.31 | 24 | 40.17 | 0 | 29.07 | 42 |
| 6 | 15.55 | 6 | 9.76 | 42 | 50.49 | 29 | 41.55 | 21 | 40.17 | 2 | 29.49 | 42 |
| 7 | 15.49 | 4 | 9.34 | 41 | 50.20 | 29 | 41.76 | 20 | 40.15 | 3 | 29.91 | 39 |
| 8 | 15.45 | 3 | 8.93 | 40 | 49.91 | 28 | 41.96 | 18 | 40.12 | 4 | 30.30 | 38 |
| 9 | 15.42 | 3 | 8.53 | 39 | 49.63 | 26 | 42.14 | 17 | 40.08 | 3 | 30.68 | 36 |
| 10 | 15.39 | 2 | 8.14 | 36 | 49.37 | 25 | 42.31 | 16 | 40.05 | 3 | 31.04 | 35 |
| 11 | 15.37 | 2 | 7.78 | 36 | 49.12 | 24 | 42.47 | 16 | 40.02 | 3 | 31.39 | 34 |
| 12 | 15.35 | 4 | 7.42 | 34 | 48.88 | 24 | 42.63 | 18 | 39.99 | 1 | 31.73 | 35 |
| 13 | 15.31 | 4 | 7.08 | 35 | 48.64 | 24 | 42.81 | 19 | 39.98 | 0 | 32.08 | 35 |
| 14 | 15.27 | 5 | 6.73 | 35 | 48.40 | 24 | 43.00 | 20 | 39.98 | 0 | 32.43 | 36 |
| 15 | 15.22 | 6 | 6.38 | 37 | 48.16 | 25 | 43.20 | 21 | 39.98 | 0 | 32.79 | 37 |
| 16 | 15.16 | 5 | 6.01 | 39 | 47.91 | 26 | 43.41 | 21 | 39.98 | 1 | 33.16 | 38 |
| 17 | 15.11 | 4 | 5.62 | 41 | 47.65 | 28 | 43.62 | 20 | 39.97 | 3 | 33.54 | 40 |
| 18 | {15.07 | 3 | {5.21 | 42 | 47.37 | 29 | 43.82 | 18 | 39.94 | 4 | 33.94 | 40 |
| | {15.04 | 1 | {4.79 | 41 | | | | | | | | |
| 19 | 15.03 | 0 | 4.38 | 42 | 47.08 | 29 | 44.00 | 16 | 39.90 | 5 | 34.34 | 40 |
| 20 | 15.03 | | 3.96 | | 46.79 | | 44.16 | | 39.85 | | 34.74 | |
| O. K. | $+0^s.26 \cos\varphi$ | | | | $+0^s.26 \cos\varphi$ | | | | $+0^s.23 \cos\varphi$ | | | |
| U. K. | $-0\ .26 \cos\varphi$ | | | | $-0\ .26 \cos\varphi$ | | | | $-0\ .23 \cos\varphi$ | | | |

# Obere Kulmination.

| 1911 | Octantis 4 G. 6ᵐ. | | | | ζ Octantis. 6ᵐ–5ᵐ. | | | | ι Octantis. 6ᵐ–5ᵐ. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | 1ʰ 42ᵐ | | −85° 12′ | | 9ʰ 9ᵐ | | −85° 18′ | | 12ʰ 45ᵐ | | −84° 38′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | |
| April 20 | 15.03 | 3 | 63.96 | 41 | 46.79 | 31 | 44.16 | 14 | 39.85 | 7 | 34.74 | 39 |
| 21 | 15.06 | 3 | 63.55 | 39 | 46.48 | 31 | 44.30 | 12 | 39.78 | 8 | 35.13 | 37 |
| 22 | 15.09 | 4 | 63.16 | 37 | 46.17 | 30 | 44.42 | 11 | 39.70 | 8 | 35.50 | 35 |
| 23 | 15.13 | 4 | 62.79 | 37 | 45.87 | 27 | 44.53 | 10 | 39.62 | 8 | 35.85 | 33 |
| 24 | 15.17 | 2 | 62.42 | 35 | 45.60 | 27 | 44.63 | 9 | 39.54 | 7 | 36.18 | 33 |
| 25 | 15.19 | 1 | 62.07 | 34 | 45.33 | 26 | 44.72 | 11 | 39.47 | 6 | 36.51 | 32 |
| 26 | 15.20 | 0 | 61.73 | 35 | 45.07 | 25 | 44.83 | 12 | 39.41 | 6 | 36.83 | 32 |
| 27 | 15.20 | 0 | 61.38 | 36 | 44.82 | 25 | 44.95 | 14 | 39.35 | 4 | 37.15 | 33 |
| 28 | 15.20 | 0 | 61.02 | 38 | 44.57 | 26 | 45.09 | 14 | 39.31 | 5 | 37.48 | 35 |
| 29 | 15.20 | 0 | 60.64 | 40 | 44.31 | 28 | 45.23 | 15 | 39.26 | 5 | 37.83 | 37 |
| 30 | 15.20 | 2 | 60.24 | 41 | 44.03 | 28 | 45.38 | 14 | 39.21 | 6 | 38.20 | 37 |
| Mai 1 | 15.22 | 3 | 59.83 | 42 | 43.75 | 30 | 45.52 | 13 | 39.15 | 7 | 38.57 | 38 |
| 2 | 15.25 | 5 | 59.41 | 42 | 43.45 | 32 | 45.65 | 12 | 39.08 | 9 | 38.95 | 38 |
| 3 | 15.30 | 6 | 58.99 | 41 | 43.13 | 31 | 45.77 | 9 | 38.99 | 11 | 39.33 | 37 |
| 4 | 15.36 | 7 | 58.58 | 39 | 42.82 | 32 | 45.86 | 6 | 38.88 | 11 | 39.70 | 35 |
| 5 | 15.43 | 9 | 58.19 | 38 | 42.50 | 31 | 45.92 | 5 | 38.77 | 12 | 40.05 | 33 |
| 6 | 15.52 | 9 | 57.81 | 35 | 42.19 | 30 | 45.97 | 4 | 38.65 | 12 | 40.38 | 32 |
| 7 | 15.61 | 9 | 57.46 | 34 | 41.89 | 28 | 46.01 | 3 | 38.53 | 12 | 40.70 | 30 |
| 8 | 15.70 | 8 | 57.12 | 33 | 41.61 | 28 | 46.04 | 3 | 38.41 | 11 | 41.00 | 28 |
| 9 | 15.78 | 7 | 56.79 | 32 | 41.33 | 25 | 46.07 | 3 | 38.30 | 10 | 41.28 | 28 |
| 10 | 15.85 | 6 | 56.47 | 32 | 41.08 | 25 | 46.10 | 4 | 38.20 | 10 | 41.56 | 28 |
| 11 | 15.91 | 5 | 56.15 | 34 | 40.83 | 25 | 46.14 | 6 | 38.10 | 8 | 41.84 | 29 |
| 12 | 15.96 | 6 | 55.81 | 35 | 40.58 | 26 | 46.20 | 6 | 38.02 | 9 | 42.13 | 30 |
| 13 | 16.02 | 7 | 55.46 | 37 | 40.32 | 27 | 46.26 | 7 | 37.93 | 10 | 42.43 | 31 |
| 14 | 16.09 | 7 | 55.09 | 38 | 40.05 | 29 | 46.33 | 6 | 37.83 | 10 | 42.74 | 32 |
| 15 | 16.16 | 10 | 54.71 | 38 | 39.76 | 29 | 46.39 | 4 | 37.73 | 12 | 43.06 | 33 |
| 16 | 16.26 | 11 | 54.33 | 38 | 39.47 | 31 | 46.43 | 3 | 37.61 | 14 | 43.39 | 32 |
| 17 | 16.37 | 12 | 53.95 | 37 | 39.16 | 31 | 46.46 | 1 | 37.47 | 15 | 43.71 | 31 |
| 18 | 16.49 | 14 | 53.58 | 36 | 38.85 | 31 | 46.47 | −2 | 37.32 | 15 | 44.02 | 30 |
| 19 | 16.63 | 14 | 53.22 | 34 | 38.54 | 30 | 46.45 | 4 | 37.17 | 16 | 44.32 | 28 |
| 20 | 16.77 | 14 | 52.88 | 32 | 38.24 | 29 | 46.41 | 5 | 37.01 | 17 | 44.60 | 27 |
| 21 | 16.91 | 13 | 52.56 | 30 | 37.95 | 27 | 46.36 | 5 | 36.84 | 15 | 44.87 | 24 |
| 22 | 17.04 | 13 | 52.26 | 30 | 37.68 | 26 | 46.31 | 4 | 36.69 | 15 | 45.11 | 23 |
| 23 | 17.17 | 11 | 51.96 | 29 | 37,42 | 24 | 46.27 | 3 | 36.54 | 13 | 45.34 | 24 |
| 24 | 17.28 | 11 | 51.67 | 31 | 37.18 | 25 | 46.24 | 2 | 36.41 | 13 | 45.58 | 24 |
| 25 | 17.39 | 10 | 51.36 | 31 | 36.93 | 25 | 46.22 | 1 | 36.28 | 12 | 45.82 | 25 |
| 26 | 17.49 | 11 | 51.05 | 33 | 36.68 | 26 | 46.21 | 0 | 36.16 | 12 | 46.07 | 26 |
| 27 | 17.60 | | 50.72 | | 36.42 | | 46.21 | | 36.04 | | 46.33 | |
| O. K. | + 0ˢ.26 cos φ | | | | + 0ˢ.26 cos φ | | | | + 0ˢ.23 cos φ | | | |
| U. K. | − 0 .26 cos φ | | | | − 0 .26 cos φ | | | | − 0 .23 cos φ | | | |

## Obere Kulmination.

| 1911 | Octantis 4 G. 6ᵐ. AR. | | Dekl. | | ζ Octantis. 6ᵐ – 5ᵐ. AR. | | Dekl. | | ι Octantis. 6ᵐ – 5ᵐ. AR. | | Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $1^h\ 42^m$ | | $-85°\ 12'$ | | $9^h\ 9^m$ | | $-85°\ 18'$ | | $12^h\ 45^m$ | | $-84°\ 38'$ | |
| Mai 27 | $17^s.60$ | 11 | $50''.72$ | 34 | $36^s.42$ | 27 | $46''.21$ | 0 | $36^s.04$ | 14 | $46''.33$ | 27 |
| 28 | 17.71 | 12 | 50.38 | 35 | 36.15 | 28 | 46.21 | 1 | 35.90 | 14 | 46.60 | 28 |
| 29 | 17.83 | 15 | 50.03 | 35 | 35.87 | 29 | 46.20 | 2 | 35.76 | 16 | 46.88 | 28 |
| 30 | 17.98 | 16 | 49.68 | 35 | 35.58 | 30 | 46.18 | 4 | 35.60 | 17 | 47.16 | 27 |
| 31 | 18.14 | 17 | 49.33 | 33 | 35.28 | 30 | 46.14 | 7 | 35.43 | 18 | 47.43 | 26 |
| Juni 1 | 18.31 | 19 | 49.00 | 32 | 34.98 | 29 | 46.07 | 9 | 35.25 | 18 | 47.69 | 23 |
| 2 | 18.50 | 19 | 48.68 | 29 | 34.69 | 28 | 45.98 | 10 | 35.07 | 20 | 47.92 | 22 |
| 3 | 18.69 | 19 | 48.39 | 27 | 34.41 | 26 | 45.88 | 11 | 34.87 | 19 | 48.14 | 20 |
| 4 | 18.88 | 18 | 48.12 | 25 | 34.15 | 25 | 45.77 | 12 | 34.68 | 19 | 48.34 | 18 |
| 5 | 19.06 | 17 | 47.87 | 24 | 33.90 | 24 | 45.65 | 12 | 34.49 | 17 | 48.52 | 17 |
| 6 | 19.23 | 16 | 47.63 | 25 | 33.66 | 23 | 45.53 | 11 | 34.32 | 15 | 48.69 | 17 |
| 7 | 19.39 | 15 | 47.38 | 25 | 33.43 | 22 | 45.42 | 9 | 34.17 | 16 | 48.85 | 17 |
| 8 | 19.54 | 15 | 47.13 | 26 | 33.21 | 23 | 45.33 | 8 | 34.01 | 16 | 49.02 | 18 |
| 9 | 19.69 | 15 | 46.87 | 27 | 32.98 | 23 | 45.25 | 8 | 33.85 | 15 | 49.20 | 19 |
| 10 | 19.84 | 17 | 46.60 | 29 | 32.75 | 24 | 45.17 | 9 | 33.70 | 16 | 49.39 | 20 |
| 11 | 20.01 | 19 | 46.31 | 29 | 32.51 | 26 | 45.08 | 9 | 33.54 | 17 | 49.59 | 21 |
| 12 | 20.20 | 19 | 46.02 | 29 | 32.25 | 26 | 44.99 | 10 | 33.37 | 19 | 49.80 | 20 |
| 13 | 20.39 | 21 | 45.73 | 28 | 31.99 | 27 | 44.89 | 13 | 33.18 | 21 | 50.00 | 20 |
| 14 | 20.60 | 23 | 45.45 | 27 | 31.72 | 27 | 44.76 | 15 | 32.97 | 21 | 50.20 | 18 |
| 15 | 20.83 | 23 | 45.18 | 24 | 31.45 | 26 | 44.61 | 17 | 32.76 | 22 | 50.38 | 16 |
| 16 | 21.06 | 23 | 44.94 | 23 | 31.19 | 24 | 44.44 | 18 | 32.54 | 22 | 50.54 | 14 |
| 17 | 21.29 | 23 | 44.71 | 21 | 30.95 | 23 | 44.26 | 19 | 32.32 | 21 | 50.68 | 12 |
| 18 | 21.52 | 22 | 44.50 | 20 | 30.72 | 22 | 44.07 | 18 | 32.11 | 20 | 50.80 | 10 |
| 19 | 21.74 | 20 | 44.30 | 19 | 30.50 | 20 | 43.89 | 18 | 31.91 | 19 | 50.90 | 10 |
| 20 | 21.94 | 19 | 44.11 | 19 | 30.30 | 19 | 43.71 | 16 | 31.72 | 18 | 51.00 | 10 |
| 21 | 22.13 | 18 | 43.92 | 20 | 30.11 | 20 | 43.55 | 15 | 31.54 | 18 | 51.10 | 11 |
| 22 | 22.31 | 19 | 43.72 | 20 | 29.91 | 20 | 43.40 | 14 | 31.36 | 17 | 51.21 | 12 |
| 23 | 22.50 | 19 | 43.52 | 22 | 29.71 | 21 | 43.26 | 14 | 31.19 | 18 | 51.33 | 14 |
| 24 | 22.69 | 20 | 43.30 | 23 | 29.50 | 21 | 43.12 | 14 | 31.01 | 19 | 51.47 | 14 |
| 25 | 22.89 | 21 | 43.07 | 23 | 29.29 | 23 | 42.98 | 15 | 30.82 | 19 | 51.61 | 14 |
| 26 | 23.10 | 22 | 42.84 | 23 | 29.06 | 24 | 42.83 | 17 | 30.63 | 21 | 51.75 | 14 |
| 27 | 23.32 | 25 | 42.61 | 22 | 28.82 | 24 | 42.66 | 19 | 30.42 | 22 | 51.89 | 13 |
| 28 | 23.57 | 26 | 42.39 | 20 | 28.58 | 23 | 42.47 | 21 | 30.20 | 23 | 52.02 | 11 |
| 29 | 23.83 | 26 | 42.19 | 17 | 28.35 | 22 | 42.26 | 23 | 29.97 | 23 | 52.13 | 8 |
| 30 | 24.09 | 26 | 42.02 | 16 | 28.13 | 21 | 42.03 | 24 | 29.74 | 24 | 52.21 | 7 |
| Juli 1 | 24.35 | 26 | 41.86 | 14 | 27.92 | 19 | 41.79 | 25 | 29.50 | 22 | 52.28 | 4 |
| 2 | 24.61 | 24 | 41.72 | 12 | 27.73 | 17 | 41.54 | 24 | 29.28 | 22 | 52.32 | 2 |
| 3 | 24.85 | | 41.60 | | 27.56 | | 41.30 | | 29.06 | | 52.34 | |
| O. K. | $+\ 0^s.26 \cos\varphi$ | | | | $+\ 0^s.26 \cos\varphi$ | | | | $+\ 0^s.23 \cos\varphi$ | | | |
| U. K. | $-\ 0\ .26 \cos\varphi$ | | | | $-\ 0\ .26 \cos\varphi$ | | | | $-\ 0\ .23 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | Octantis 4 G. $6^m$. | | | | ζ Octantis. $6^m-5^m$. | | | | ι Octantis. $6^m-5^m$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | Δ | Dekl. | Δ | AR. | Δ | Dekl. | Δ | AR. | Δ | Dekl. | Δ |
| | $1^h\ 42^m$ | | $-85°\ 12'$ | | $9^h\ 9^m$ | | $-85°\ 18'$ | | $12^h\ 45^m$ | | $-84°\ 38'$ | |
| Juli 3 | $24.^s85$ | 23 | $41.''60$ | 11 | $27.^s56$ | 16 | $41.''30$ | 23 | $29.^s06$ | 20 | $52.''34$ | 3 |
| 4 | 25.08 | 22 | 41.49 | 12 | 27.40 | 15 | 41.07 | 22 | 28.86 | 19 | 52.37 | 2 |
| 5 | 25.30 | 22 | 41.37 | 13 | 27.25 | 15 | 40.85 | 21 | 28.67 | 19 | 52.39 | 3 |
| 6 | 25.52 | 21 | 41.24 | 14 | 27.10 | 14 | 40.64 | 20 | 28.48 | 18 | 52.42 | 3 |
| 7 | 25.73 | 22 | 41.10 | 14 | 26.96 | 16 | 40.44 | 21 | 28.30 | 19 | 52.45 | 5 |
| 8 | 25.95 | 23 | 40.96 | 15 | 26.80 | 17 | 40.23 | 21 | 28.11 | 19 | 52.50 | 6 |
| 9 | 26.18 | 25 | 40.81 | 15 | 26.63 | 18 | 40.02 | 22 | 27.92 | 21 | 52.56 | 6 |
| 10 | 26.43 | 25 | 40.66 | 14 | 26.45 | 18 | 39.80 | 23 | 27.71 | 23 | 52.62 | 5 |
| 11 | 26.68 | 27 | 40.52 | 13 | 26.27 | 18 | 39.57 | 26 | 27.48 | 23 | 52.67 | 3 |
| 12 | 26.95 | 29 | 40.39 | 11 | 26.09 | 17 | 39.31 | 27 | 27.25 | 24 | 52.70 | 2 |
| 13 | 27.24 | 28 | 40.28 | 9 | 25.92 | 17 | 39.04 | 28 | 27.01 | 24 | 52.72 | 1 |
| 14 | 27.52 | 27 | 40.19 | 7 | 25.75 | 15 | 38.76 | 30 | 26.77 | 24 | 52.71 | 2 |
| 15 | 27.79 | 27 | 40.12 | 6 | 25.60 | 13 | 38.46 | 30 | 26.53 | 22 | 52.69 | 4 |
| 16 | 28.06 | 25 | 40.06 | 5 | 25.47 | 12 | 38.16 | 28 | 26.31 | 22 | 52.65 | 6 |
| 17 | 28.31 | 24 | 40.01 | 5 | 25.35 | 10 | 37.88 | 27 | 26.09 | 20 | 52.59 | 5 |
| 18 | 28.55 | 23 | 39.96 | 4 | 25.25 | 10 | 37.61 | 26 | 25.89 | 19 | 52.54 | 4 |
| 19 | 28.78 | 22 | 39.92 | 6 | 25.15 | 10 | 37.35 | 24 | 25.70 | 18 | 52.50 | 4 |
| 20 | 29.00 | 22 | 39.86 | 7 | 25.05 | 11 | 37.11 | 24 | 25.52 | 18 | 52.46 | 2 |
| 21 | 29.22 | 23 | 39.79 | 8 | 24.94 | 12 | 36.87 | 23 | 25.34 | 19 | 52.44 | 2 |
| 22 | 29.45 | 24 | 39.71 | 8 | 24.82 | 12 | 36.64 | 24 | 25.15 | 19 | 52.42 | 1 |
| 23 | 29.69 | 26 | 39.63 | 8 | 24.70 | 14 | 36.40 | 26 | 24.96 | 21 | 52.41 | 1 |
| 24 | 29.95 | 27 | 39.55 | 7 | 24.56 | 13 | 36.14 | 27 | 24.75 | 22 | 52.40 | 3 |
| 25 | 30.22 | 28 | 39.48 | 5 | 24.43 | 14 | 35.87 | 29 | 24.53 | 23 | 52.37 | 4 |
| 26 | 30.50 | 29 | 39.43 | 3 | 24.29 | 12 | 35.58 | 31 | 24.30 | 23 | 52.33 | 6 |
| 27 | 30.79 | 28 | 39.40 | 1 | 24.17 | 11 | 35.27 | 33 | 24.07 | 24 | 52.27 | 8 |
| 28 | 31.07 | 27 | 39.39 | 1 | 24.06 | 9 | 34.94 | 33 | 23.83 | 22 | 52.19 | 11 |
| 29 | 31.34 | 27 | 39.40 | 3 | 23.97 | 7 | 34.61 | 32 | 23.61 | 21 | 52.08 | 12 |
| 30 | 31.61 | 25 | 39.43 | 4 | 23.90 | 5 | 34.29 | 32 | 23.40 | 19 | 51.96 | 13 |
| 31 | 31.86 | 24 | 39.47 | 5 | 23.85 | 4 | 33.97 | 30 | 23.21 | 19 | 51.83 | 13 |
| Aug. 1 | 32.10 | 23 | 39.52 | 3 | 23.81 | 4 | 33.67 | 29 | 23.02 | 18 | 51.70 | 14 |
| 2 | 32.33 | 22 | 39.55 | 3 | 23.77 | 3 | 33.38 | 27 | 22.84 | 17 | 51.56 | 12 |
| 3 | 32.55 | 22 | 39.58 | 2 | 23.74 | 5 | 33.11 | 27 | 22.67 | 16 | 51.44 | 10 |
| 4 | 32.77 | 23 | 39.60 | 1 | 23.69 | 5 | 32.84 | 27 | 22.51 | 17 | 51.34 | 10 |
| 5 | 33.00 | 24 | 39.61 | 1 | 23.64 | 6 | 32.57 | 28 | 22.34 | 19 | 51.24 | 10 |
| 6 | 33.24 | 26 | 39.62 | 1 | 23.58 | 7 | 32.29 | 29 | 22.15 | 19 | 51.14 | 10 |
| 7 | 33.50 | 27 | 39.63 | 3 | 23.51 | 7 | 32.00 | 31 | 21.96 | 21 | 51.04 | 11 |
| 8 | 33.77 | | 39.66 | | 23.44 | | 31.69 | | 21.75 | | 50.93 | |
| O. K. | $+0^s.26 \cos\varphi$ | | | | $+0^s.26 \cos\varphi$ | | | | $+0^s.23 \cos\varphi$ | | | |
| U. K. | $-0.26 \cos\varphi$ | | | | $-0.26 \cos\varphi$ | | | | $-0.23 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | Octantis 4 G. 6ᵐ. AR. | | Dekl. | | ζ Octantis. 6ᵐ–5ᵐ. AR. | | Dekl. | | ι Octantis. 6ᵐ–5ᵐ. AR. | | Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $1^h\ 42^m$ | | $-85°\ 12'$ | | $9^h\ 9^m$ | | $-85°\ 18'$ | | $12^h\ 45^m$ | | $-84°\ 38'$ | |
| | s | | " | | s | | " | | s | | " | |
| Aug. 8 | 33.77 | 28 | 39.66 | 4 | 23.44 / 23.37 | 7 / 5 | 31.69 / 31.37 | 32 / 34 | 21.75 | 21 | 50.93 | 12 |
| 9 | 34.05 | 28 | 39.70 | 6 | 23.32 | 3 | 31.03 | 35 | 21.54 | 22 | 50.81 | 15 |
| 10 | 34.33 | 27 | 39.76 | 9 | 23.29 | 1 | 30.68 | 35 | 21.32 | 21 | 50.66 | 17 |
| 11 | 34.60 | 27 | 39.85 | 10 | 23.28 | 0 | 30.33 | 34 | 21.11 | 20 | 50.49 | 19 |
| 12 | 34.87 | 25 | 39.95 | 12 | 23.28 | 1 | 29.99 | 32 | 20.91 | 19 | 50.30 | 19 |
| 13 | 35.12 | 23 | 40.07 | 11 | 23.29 | 2 | 29.67 | 31 | 20.72 | 17 | 50.11 | 21 |
| 14 | 35.35 | 22 | 40.18 | 12 | 23.31 | 3 | 29.36 | 29 | 20.55 | 15 | 49.90 | 19 |
| 15 | 35.57 | 21 | 40.30 | 11 | 23.34 | 2 | 29.07 | 27 | 20.40 | 15 | 49.71 | 19 |
| 16 | 35.78 | 20 | 40.41 | 10 | 23.36 | 1 | 28.80 | 27 | 20.25 | 14 | 49.52 | 17 |
| 17 | 35.98 | 20 | 40.51 | 9 | 23.37 | 0 | 28.53 | 27 | 20.11 | 14 | 49.35 | 17 |
| 18 | 36.18 | 21 | 40.60 | 7 | 23.37 | 0 | 28.26 | 28 | 19.97 | 15 | 49.18 | 15 |
| 19 | 36.39 | 23 | 40.67 | 8 | 23.37 | 1 | 27.98 | 29 | 19.82 | 16 | 49.03 | 15 |
| 20 | 36.62 | 24 | 40.75 | 9 | 23.36 | 0 | 27.69 | 31 | 19.66 | 17 | 48.88 | 16 |
| 21 | 36.86 | 24 | 40.84 | 10 | 23.36 | 0 | 27.38 | 33 | 19.49 | 18 | 48.72 | 17 |
| 22 | 37.10 | 24 | 40.94 | 11 | 23.36 | 1 | 27.05 | 33 | 19.31 | 17 | 48.55 | 19 |
| 23 | 37.34 | 25 | 41.05 | 14 | 23.37 | 3 | 26.72 | 34 | 19.14 | 18 | 48.36 | 21 |
| 24 | 37.59 | 25 | 41.19 | 17 | 23.40 | 5 | 26.38 | 34 | 18.96 | 17 | 48.15 | 24 |
| 25 | 37.84 | 24 | 41.36 | 18 | 23.45 | 7 | 26.04 | 33 | 18.79 | 16 | 47.91 | 25 |
| 26 | 38.08 | 21 | 41.54 | 18 | 23.52 | 9 | 25.71 | 31 | 18.63 | 15 | 47.66 | 25 |
| 27 | 38.29 | 20 | 41.72 | 20 | 23.61 | 9 | 25.40 | 30 | 18.48 | 13 | 47.41 | 27 |
| 28 | 38.49 | 19 | 41.92 | 20 | 23.70 | 9 | 25.10 | 28 | 18.35 | 12 | 47.14 | 26 |
| 29 | 38.68 | 18 | 42.12 | 19 | 23.79 | 9 | 24.82 | 27 | 18.23 | 10 | 46.88 | 25 |
| 30 | 38.86 | 17 | 42.31 | 18 | 23.88 | 8 | 24.55 | 27 | 18.13 | 10 | 46.63 | 24 |
| 31 | 39.03 | 17 | 42.49 | 17 | 23.96 | 7 | 24.28 | 26 | 18.03 | 11 | 46.39 | 23 |
| Sept. 1 | 39.20 | 19 | 42.66 | 16 | 24.03 | 6 | 24.02 | 27 | 17.92 | 11 | 46.16 | 22 |
| 2 | 39.39 | 20 | 42.82 | 15 | 24.09 | 6 | 23.75 | 29 | 17.81 | 12 | 45.94 | 22 |
| 3 | 39.59 | 20 | 42.97 | 16 | 24.15 | 6 | 23.46 | 31 | 17.69 | 13 | 45.72 | 22 |
| 4 | 39.79 | 22 | 43.13 | 18 | 24.21 | 8 | 23.15 | 31 | 17.56 | 15 | 45.50 | 24 |
| 5 | 40.01 | 21 | 43.31 | 21 | 24.29 | 9 | 22.84 | 33 | 17.41 | 14 | 45.26 | 25 |
| 6 | 40.22 | 21 | 43.52 | 22 | 24.38 | 10 | 22.51 | 32 | 17.27 | 13 | 45.01 | 27 |
| 7 | 40.43 | 21 | 43.74 | 23 | 24.48 | 12 | 22.19 | 32 | 17.14 | 13 | 44.74 | 29 |
| 8 | 40.64 | 18 | 43.97 | 25 | 24.60 | 13 | 21.87 | 30 | 17.01 | 11 | 44.45 | 30 |
| 9 | 40.82 | 16 | 44.22 | 26 | 24.73 | 15 | 21.57 | 27 | 16.90 | 10 | 44.15 | 31 |
| 10 | 40.98 | 16 | 44.48 | 26 | 24.88 | 15 | 21.30 | 26 | 16.80 | 8 | 43.84 | 30 |
| 11 | 41.14 | 13 | 44.74 | 25 | 25.03 | 15 | 21.04 | 24 | 16.72 | 7 | 43.54 | 29 |
| 12 | 41.27 | 13 | 44.99 | 25 | 25.18 | 14 | 20.80 | 22 | 16.65 | 5 | 43.25 | 29 |
| 13 | 41.40 | | 45.24 | | 25.32 | | 20.58 | | 16.60 | | 42.96 | |
| O. K. | $+0^s.26 \cos\varphi$ | | | | $+0^s.26 \cos\varphi$ | | | | $+0^s.23 \cos\varphi$ | | | |
| U. K. | $-0.26 \cos\varphi$ | | | | $-0.26 \cos\varphi$ | | | | $-0.23 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | Octantis 4 G. 6m. | | | | ζ Octantis. 6m–5m. | | | | ι Octantis. 6m–5m. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | 1h 42m | | −85° 12′ | | 9h 9m | | −85° 18′ | | 12h 45m | | −84° 38′ | |
| Sept. 13 | 41s.40 | 12 | 45″.24 | 22 | 25s.32 | 14 | 20″.58 | 22 | 16s.60 | 5 | 42″.96 | 27 |
| 14 | 41.52 | 12 | 45.46 | 21 | 25.46 | 12 | 20.36 | 22 | 16.55 | 6 | 42.69 | 24 |
| 15 | 41.64 | 14 | 45.67 | 21 | 25.58 | 11 | 20.14 | 24 | 16.49 | 6 | 42.45 | 24 |
| 16 | 41.78 | 14 | 45.88 | 21 | 25.69 | 12 | 19.90 | 24 | 16.43 | 7 | 42.21 | 25 |
| 17 | 41.92 | 16 | 46.09 | 21 | 25.81 | 12 | 19.66 | 26 | 16.36 | 8 | 41.96 | 25 |
| 18 | 42.08 | 16 | 46.30 | 23 | 25.93 | 13 | 19.40 | 27 | 16.28 | 8 | 41.71 | 27 |
| 19 | 42.24 | 16 | 46.53 | 26 | 26.06 | 15 | 19.13 | 28 | 16.20 | 9 | 41.44 | 28 |
| 20 | 42.40 | 15 | 46.79 | 28 | 26.21 | 17 | 18.85 | 27 | 16.11 | 7 | 41.16 | 31 |
| 21 | 42.55 | 14 | 47.07 | 29 | 26.38 | 18 | 18.58 | 26 | 16.04 | 7 | 40.85 | 31 |
| 22 | 42.69 | 13 | 47.36 | 31 | 26.56 | 20 | 18.32 | 25 | 15.97 | 5 | 40.54 | 33 |
| 23 | 42.82 | 11 | 47.67 | 31 | 26.76 | 21 | 18.07 | 22 | 15.92 | 3 | 40.21 | 34 |
| 24 | 42.93 | 9 | 47.98 | 31 | 26.97 | 21 | 17.85 | 21 | 15.89 | 2 | 39.87 | 34 |
| 25 | 43.02 | 8 | 48.29 | 30 | 27.18 | 20 | 17.64 | 18 | 15.87 | 1 | 39.53 | 32 |
| 26 | 43.10 | 8 | 48.59 | 29 | 27.38 | 19 | 17.46 | 18 | 15.86 | 0 | 39.21 | 30 |
| 27 | 43.18 | 7 | 48.88 | 28 | 27.57 | 19 | 17.28 | 17 | 15.86 | 0 | 38.91 | 29 |
| 28 | 43.25 | 8 | 49.16 | 27 | 27.76 | 18 | 17.11 | 18 | 15.86 | 0 | 38.62 | 29 |
| 29 | 43.33 | 8 | 49.43 | 26 | 27.94 | 17 | 16.93 | 19 | 15.86 | 1 | 38.33 | 27 |
| 30 | 43.41 | 9 | 49.69 | 25 | 28.11 | 17 | 16.74 | 20 | 15.85 | 2 | 38.06 | 27 |
| Okt. 1 | 43.50 | 11 | 49.94 | 27 | 28.28 | 18 | 16.54 | 21 | 15.83 | 2 | 37.79 | 28 |
| 2 | 43.61 | 10 | 50.21 | 29 | 28.46 | 19 | 16.33 | 21 | 15.81 | 3 | 37.51 | 30 |
| 3 | 43.71 | 10 | 50.50 | 30 | 28.65 | 20 | 16.12 | 22 | 15.78 | 2 | 37.21 | 31 |
| 4 | 43.81 | 9 | 50.80 | 32 | 28.85 | 22 | 15.90 | 21 | 15.76 | 1 | 36.90 | 32 |
| 5 | 43.90 | 7 | 51.12 | 33 | 29.07 | 24 | 15.69 | 20 | 15.75 | 1 | 36.58 | 33 |
| 6 | 43.97 | 5 | 51.45 | 34 | 29.31 | 25 | 15.49 | 17 | 15.74 | 0 | 36.25 | 34 |
| | | | | | | | | | 15.74 | 3 | 35.91 | 34 |
| 7 | 44.02 | 4 | 51.79 | 34 | 29.56 | 25 | 15.32 | 15 | 15.77 | 5 | 35.57 | 33 |
| 8 | 44.06 | 3 | 52.13 | 33 | 29.81 | 25 | 15.17 | 13 | 15.82 | 6 | 35.24 | 31 |
| 9 | 44.09 | 1 | 52.46 | 32 | 30.06 | 24 | 15.04 | 12 | 15.88 | 6 | 34.93 | 29 |
| 10 | 44.10 | 0 | 52.78 | 30 | 30.30 | 23 | 14.92 | 10 | 15.94 | 6 | 34.64 | 28 |
| 11 | 44.10 | 0 | 53.08 | 28 | 30.53 | 22 | 14.82 | 9 | 16.00 | 6 | 34.36 | 26 |
| 12 | 44.10 | 1 | 53.36 | 28 | 30.75 | 21 | 14.73 | 10 | 16.06 | 5 | 34.10 | 26 |
| 13 | 44.11 | 2 | 53.64 | 27 | 30.96 | 21 | 14.63 | 11 | 16.11 | 4 | 33.84 | 25 |
| 14 | 44.13 | 2 | 53.91 | 27 | 31.17 | 20 | 14.52 | 12 | 16.15 | 4 | 33.59 | 27 |
| 15 | 44.15 | 3 | 54.18 | 27 | 31.37 | 21 | 14.40 | 13 | 16.19 | 4 | 33.32 | 27 |
| 16 | 44.18 | 4 | 54.45 | 30 | 31.58 | 22 | 14.27 | 13 | 16.23 | 3 | 33.05 | 29 |
| 17 | 44.22 | 3 | 54.75 | 32 | 31.80 | 24 | 14.14 | 14 | 16.26 | 5 | 32.76 | 31 |
| 18 | 44.25 | 2 | 55.07 | 33 | 32.04 | 26 | 14.00 | 12 | 16.31 | 5 | 32.45 | 32 |
| 19 | 44.27 | | 55.40 | | 32.30 | | 13.88 | | 16.36 | | 32.13 | |
| O. K. | $+0^s.26 \cos\varphi$ | | | | $+0^s.26 \cos\varphi$ | | | | $+0^s.23 \cos\varphi$ | | | |
| U. K. | $-0.26 \cos\varphi$ | | | | $-0.26 \cos\varphi$ | | | | $-0.23 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | Octantis 4 G. 6ᵐ. | | | | ζ Octantis. 6ᵐ–5ᵐ. | | | | ι Octantis. 6ᵐ–5ᵐ. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | 1ʰ 42ᵐ | | −85° 12′ | | 9ʰ 9ᵐ | | −85° 18′ | | 12ʰ 45ᵐ | | −84° 38′ | |
| Okt. 19 | 44ˢ.27 | 0 | 55″.40 | 35 | 32ˢ.30 | 27 | 13″.88 | 12 | 16ˢ.36 | 8 | 32″.13 | 33 |
| 20 | 44.27 | 1 | 55.75 | 35 | 32.57 | 28 | 13.76 | 9 | 16.44 | 11 | 31.80 | 31 |
| 21 | 44.26 | 4 | 56.10 | 35 | 32.85 | 28 | 13.67 | 6 | 16.55 | 11 | 31.49 | 31 |
| 22 | 44.22 | 5 | 56.45 | 33 | 33.13 | 28 | 13.61 | 4 | 16.66 | 11 | 31.18 | 29 |
| 23 | 44.17 | 6 | 56.78 | 33 | 33.41 | 27 | 13.57 | 3 | 16.77 | 13 | 30.89 | 28 |
| 24 | 44.11 | 6 | 57.11 | 30 | 33.68 | 26 | 13.54 | 3 | 16.90 | 12 | 30.61 | 25 |
| 25 | 44.05 | 6 | 57.41 | 29 | 33.94 | 25 | 13.51 | 2 | 17.02 | 12 | 30.36 | 24 |
| 26 | 43.99 | 6 | 57.70 | 29 | 34.19 | 24 | 13.49 | 2 | 17.14 | 11 | 30.12 | 24 |
| 27 | 43.93 | 4 | 57.99 | 27 | 34.43 | 23 | 13.47 | 4 | 17.25 | 9 | 29.88 | 24 |
| 28 | 43.89 | 3 | 58.26 | 28 | 34.66 | 24 | 13.43 | 4 | 17.34 | 10 | 29.64 | 24 |
| 29 | 43.86 | 2 | 58.54 | 29 | 34.90 | 24 | 13.39 | 5 | 17.44 | 9 | 29.40 | 26 |
| 30 | 43.84 | 3 | 58.83 | 30 | 35.14 | 24 | 13.34 | 6 | 17.53 | 10 | 29.14 | 26 |
| 31 | 43.81 | 4 | 59.13 | 31 | 35.38 | 27 | 13.28 | 5 | 17.63 | 11 | 28.88 | 28 |
| Nov. 1 | 43.77 | 5 | 59.44 | 33 | 35.65 | 28 | 13.23 | 4 | 17.74 | 12 | 28.60 | 28 |
| 2 | 43.72 | 7 | 59.77 | 33 | 35.93 | 29 | 13.19 | 2 | 17.86 | 15 | 28.32 | 29 |
| 3 | 43.65 | 9 | 60.10 | 34 | 36.22 | 29 | 13.17 | 1 | 18.01 | 15 | 28.03 | 27 |
| 4 | 43.56 | 11 | 60.44 | 33 | 36.51 | 30 | 13.18 | 4 | 18.16 | 18 | 27.76 | 26 |
| 5 | 43.45 | 12 | 60.77 | 31 | 36.81 | 28 | 13.22 | 5 | 18.34 | 18 | 27.50 | 24 |
| 6 | 43.33 | 13 | 61.08 | 29 | 37.09 | 27 | 13.27 | 6 | 18.52 | 17 | 27.26 | 21 |
| 7 | 43.20 | 13 | 61.37 | 27 | 37.36 | 26 | 13.33 | 7 | 18.69 | 18 | 27.05 | 19 |
| 8 | 43.07 | 13 | 61.64 | 25 | 37.62 | 24 | 13.40 | 7 | 18.87 | 17 | 26.86 | 17 |
| 9 | 42.94 | 12 | 61.89 | 24 | 37.86 | 23 | 13.47 | 7 | 19.04 | 16 | 26.69 | 18 |
| 10 | 42.82 | 11 | 62.13 | 24 | 38.09 | 23 | 13.54 | 7 | 19.20 | 15 | 26.51 | 18 |
| 11 | 42.71 | 10 | 62.37 | 25 | 38.32 | 23 | 13.61 | 5 | 19.35 | 15 | 26.33 | 19 |
| 12 | 42.61 | 10 | 62.62 | 25 | 38.55 | 24 | 13.66 | 4 | 19.50 | 14 | 26.14 | 19 |
| 13 | 42.51 | 10 | 62.87 | 26 | 38.79 | 25 | 13.70 | 4 | 19.64 | 15 | 25.95 | 21 |
| 14 | 42.41 | 11 | 63.13 | 28 | 39.04 | 26 | 13.74 | 5 | 19.79 | 17 | 25.74 | 22 |
| 15 | 42.30 | 12 | 63.41 | 29 | 39.30 | 28 | 13.79 | 6 | 19.96 | 18 | 25.52 | 23 |
| 16 | 42.18 | 13 | 63.70 | 30 | 39.58 | 29 | 13.85 | 8 | 20.14 | 20 | 25.29 | 21 |
| 17 | 42.05 | 15 | 64.00 | 30 | 39.87 | 29 | 13.93 | 10 | 20.34 | 21 | 25.08 | 21 |
| 18 | 41.90 | 17 | 64.30 | 29 | 40.16 | 28 | 14.03 | 13 | 20.55 | 21 | 24.87 | 20 |
| 19 | 41.73 | 19 | 64.59 | 26 | 40.44 | 28 | 14.16 | 13 | 20.76 | 23 | 24.67 | 17 |
| 20 | 41.54 | 19 | 64.85 | 24 | 40.72 | 26 | 14.29 | 15 | 20.99 | 22 | 24.50 | 15 |
| 21 | 41.35 | 18 | 65.09 | 23 | 40.98 | 25 | 14.44 | 17 | 21.21 | 22 | 24.35 | 13 |
| 22 | 41.17 | 18 | 65.32 | 22 | 41.23 | 23 | 14.61 | 15 | 21.43 | 21 | 24.22 | 12 |
| 23 | 40.99 | 17 | 65.54 | 20 | 41.46 | 23 | 14.76 | 15 | 21.64 | 20 | 24.10 | 12 |
| 24 | 40.82 | 16 | 65.74 | 19 | 41.69 | 22 | 14.91 | 14 | 21.84 | 19 | 23.98 | 12 |
| 25 | 40.66 | | 65.93 | | 41.91 | | 15.05 | | 22.03 | | 23.86 | |
| O. K. | + 0ˢ.26 cos φ | | | | + 0ˢ.26 cos φ | | | | + 0ˢ.23 cos φ | | | |
| U. K. | − 0 .26 cos φ | | | | − 0 .26 cos φ | | | | − 0 .23 cos φ | | | |

## Obere Kulmination.

| 1911 | Octantis 4 G. 6ᵐ. AR. | | Octantis 4 G. 6ᵐ. Dekl. | | ζ Octantis. 6ᵐ – 5ᵐ. AR. | | ζ Octantis. 6ᵐ – 5ᵐ. Dekl. | | ι Octantis. 6ᵐ – 5ᵐ. AR. | | ι Octantis. 6ᵐ – 5ᵐ. Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $1^h\ 42^m$ | | $-85°\ 13'$ | | $9^h\ 9^m$ | | $-85°\ 18'$ | | $12^h\ 45^m$ | | $-84°\ 38'$ | |
| Nov. 25 | 40.66 | 16 | 5.93 | 21 | 41.91 | 21 | 15.05 | 12 | 22.03 | 18 | 23.86 | 13 |
| 26 | 40.50 | 15 | 6.14 | 21 | 42.12 | 23 | 15.17 | 12 | 22.21 | 19 | 23.73 | 13 |
| 27 | 40.35 | 15 | 6.35 | 22 | 42.35 | 23 | 15.29 | 13 | 22.40 | 20 | 23.60 | 15 |
| 28 | 40.20 | 17 | 6.57 | 23 | 42.58 | 26 | 15.42 | 13 | 22.60 | 21 | 23.45 | 15 |
| 29 | 40.03 | 17 | 6.80 | 25 | 42.84 | 26 | 15.55 | 15 | 22.81 | 22 | 23.30 | 15 |
| 30 | 39.86 | 20 | 7.05 | 25 | 43.10 | 26 | 15.70 | 18 | 23.03 | 23 | 23.15 | 14 |
| Dez. 1 | 39.66 | 22 | 7.30 | 23 | 43.36 | 26 | 15.88 | 20 | 23.26 | 25 | 23.01 | 12 |
| 2 | 39.44 | 22 | 7.53 | 21 | 43.62 | 25 | 16.08 | 21 | 23.51 | 26 | 22.89 | 10 |
| 3 | 39.22 | 24 | 7.74 | 20 | 43.87 | 25 | 16.29 | 24 | 23.77 | 25 | 22.79 | 8 |
| 4 | 38.98 | 25 | 7.94 | 17 | 44.12 | 22 | 16.53 | 24 | 24.02 | 26 | 22.71 | 6 |
| 5 | 38.73 | 23 | 8.11 | 15 | 44.34 | 20 | 16.77 | 25 | 24.28 | 24 | 22.65 | 4 |
| 6 | 38.50 | 23 | 8.26 | 13 | 44.54 | 19 | 17.02 | 25 | 24.52 | 24 | 22.61 | 2 |
| 7 | 38.27 | 22 | 8.39 | 13 | 44.73 | 19 | 17.27 | 23 | 24.76 | 23 | 22.59 | 2 |
| 8 | 38.05 | 20 | 8.52 | 12 | 44.92 | 18 | 17.50 | 21 | 24.99 | 22 | 22.57 | 3 |
| 9 | 37.85 | 20 | 8.64 | 12 | 45.10 | 18 | 17.71 | 21 | 25.21 | 21 | 22.54 | 4 |
| 10 | 37.65 | 20 | 8.76 | 14 | 45.28 | 19 | 17.92 | 21 | 25.42 | 22 | 22.50 | 6 |
| 11 | 37.45 | 20 | 8.90 | 16 | 45.47 | 20 | 18.13 | 20 | 25.64 | 22 | 22.44 | 6 |
| 12 | 37.25 | 21 | 9.06 | 16 | 45.67 | 21 | 18.33 | 22 | 25.86 | 24 | 22.38 | 6 |
| 13 | 37.04 | 22 | 9.22 | 17 | 45.88 | 23 | 18.55 | 23 | 26.10 | 25 | 22.32 | 7 |
| 14 | 36.82 | 24 | 9.39 | 16 | 46.11 | 22 | 18.78 | 26 | 26.35 | 26 | 22.25 | 5 |
| 15 | 36.58 | 26 | 9.55 | 15 | 46.33 | 22 | 19.04 | 27 | 26.61 | 27 | 22.20 | 3 |
| 16 | 36.32 | 27 | 9.70 | 15 | 46.55 | 21 | 19.31 | 29 | 26.88 | 28 | 22.17 | 1 |
| 17 | 36.05 | 26 | 9.85 | 12 | 46.76 | 20 | 19.60 | 31 | 27.16 | 28 | 22.16 | 0 |
| 18 | 35.79 | 27 | 9.97 | 9 | 46.96 | 18 | 19.91 | 31 | 27.44 | 27 | 22.16 | 3 |
| 19 | 35.52 | 27 | 10.06 | 8 | 47.14 | 17 | 20.22 | 31 | 27.71 | 26 | 22.19 | 4 |
| 20 | 35.25 | 26 | 10.14 | 7 | 47.31 | 15 | 20.53 | 30 | 27.97 | 25 | 22.23 | 5 |
| 21 | 34.99 | 24 | 10.21 | 5 | 47.46 | 14 | 20.83 | 29 | 28.22 | 23 | 22.28 | 4 |
| 22 | 34.75 | 23 | 10.26 | 5 | 47.60 | 13 | 21.12 | 28 | 28.45 | 23 | 22.32 | 4 |
| 23 | 34.52 | 23 | 10.31 | 7 | 47.73 | 14 | 21.40 | 26 | 28.68 | 23 | 22.36 | 4 |
| 24 | 34.29 | 23 | 10.38 | 7 | 47.87 | 14 | 21.66 | 26 | 28.91 | 23 | 22.40 | 3 |
| 25 | 34.06 | 23 | 10.45 | 7 | 48.01 | 16 | 21.92 | 28 | 29.14 | 23 | 22.43 | 2 |
| 26 | 33.83 | 24 | 10.52 | 8 | 48.17 | 17 | 22.20 | 28 | 29.37 | 25 | 22.45 | 3 |
| 27 | 33.59 | 25 | 10.60 | 9 | 48.34 | 17 | 22.48 | 29 | 29.62 | 26 | 22.48 | 3 |
| 28 | 33.34 | 27 | 10.69 | 9 | 48.51 | 16 | 22.77 | 32 | 29.88 | 28 | 22.51 | 5 |
| 29 | 33.07 | 28 | 10.78 | 6 | 48.67 | 16 | 23.09 | 34 | 30.16 | 28 | 22.56 | 6 |
| 30 | 32.79 | 29 | 10.84 | 5 | 48.83 | 15 | 23.43 | 36 | 30.44 | 28 | 22.62 | 8 |
| 31 | 32.50 | 31 | 10.89 | 2 | 48.98 | 14 | 23.79 | 37 | 30.72 | 29 | 22.70 | 11 |
| 32 | 32.19 | | 10.91 | | 49.12 | | 24.16 | | 31.01 | | 22.81 | |
| O. K. | + 0ˢ.26 cos φ | | | | + 0ˢ.26 cos φ | | | | + 0ˢ.23 cos φ | | | |
| U. K. | − 0 .26 cos φ | | | | − 0 .26 cos φ | | | | − 0 .23 cos φ | | | |

## Obere Kulmination.

| 1911 | Octantis 20 G. 7m. | | | | Octantis 26 G. 6m–7m. | | | | χ Octantis. 6m. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | 14h 43m | | −87° 47′ | | 16h 27m | | −86° 11′ | | 18h 1m | | −87° 39′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | |
| Jan. 0 | 3.27 | 56 | 2.32 | 6 | 5.97 | 27 | 64.03 | 18 | 56.41 | 27 | 56.25 | 28 |
| 1 | 3.83 | 55 | 2.26 | 6 | 6.24 | 26 | 63.85 | 18 | 56.68 | 26 | 55.97 | 26 |
| 2 | 4.39 | 53 | 2.20 | 6 | 6.50 | 25 | 63.67 | 18 | 56.94 | 24 | 55.71 | 27 |
| 3 | 4.92 | 52 | 2.14 | 8 | 6.75 | 25 | 63.49 | 20 | 57.18 | 23 | 55.44 | 28 |
| 4 | 5.44 | 54 | 2.06 | 8 | 7.00 | 25 | 63.29 | 21 | 57.41 | 22 | 55.16 | 29 |
| 5 | 5.98 | 57 | 1.98 | 9 | 7.25 | 26 | 63.08 | 21 | 57.63 | 24 | 54.87 | 30 |
| 6 | 6.55 | 61 | 1.89 | 9 | 7.51 | 28 | 62.87 | 23 | 57.87 | 26 | 54.57 | 32 |
| 7 | 7.16 | 64 | 1.80 | 8 | 7.79 | 30 | 62.64 | 24 | 58.13 | 29 | 54.25 | 34 |
| 8 | 7.80 | 66 | 1.72 | 7 | 8.09 | 33 | 62.40 | 23 | 58.42 | 32 | 53.91 | 33 |
| 9 | 8.46 | 68 | 1.65 | 5 | 8.42 | 34 | 62.17 | 20 | 58.74 | 36 | 53.58 | 32 |
| 10 | 9.14 | 69 | 1.60 | 3 | 8.76 | 35 | 61.97 | 19 | 59.10 | 38 | 53.26 | 32 |
| 11 | 9.83 | 68 | 1.57 | 1 | 9.11 | 36 | 61.78 | 17 | 59.48 | 41 | 52.94 | 29 |
| 12 | 10.51 | 66 | 1.56 | 1 | 9.47 | 36 | 61.61 | 15 | 59.89 | 43 | 52.65 | 28 |
| 13 | 11.17 | 64 | 1.57 | 2 | 9.83 | 35 | 61.46 | 14 | 60.32 | 42 | 52.37 | 25 |
| 14 | 11.81 | 61 | 1.59 | 3 | 10.18 | 33 | 61.32 | 12 | 60.74 | 40 | 52.12 | 25 |
| 15 | 12.42 | 58 | 1.62 | 3 | 10.51 | 32 | 61.20 | 12 | 61.14 | 38 | 51.87 | 24 |
| 16 | 13.00 | 56 | 1.65 | 1 | 10.83 | 31 | 61.08 | 12 | 61.52 | 36 | 51.63 | 23 |
| 17 | 13.56 | 57 | 1.66 | 1 | 11.14 | 30 | 60.96 | 14 | 61.88 | 35 | 51.40 | 25 |
| 18 | 14.13 | 59 | 1.67 | 1 | 11.44 | 30 | 60.82 | 15 | 62.23 | 35 | 51.15 | 26 |
| 19 | 14.72 | 60 | 1.66 | 2 | 11.74 | 32 | 60.67 | 17 | 62.58 | 35 | 50.89 | 27 |
| 20 | 15.32 | 64 | 1.64 | 1 | 12.06 | 34 | 60.50 | 16 | 62.93 | 37 | 50.62 | 29 |
| 21 | 15.96 | 66 | 1.63 | 1 | 12.40 | 34 | 60.34 | 17 | 63.30 | 40 | 50.33 | 29 |
| 22 | 16.62 | 68 | 1.62 | 1 | 12.74 | 36 | 60.17 | 16 | 63.70 | 43 | 50.04 | 29 |
| 23 | 17.30 | 71 | 1.63 | 3 | 13.10 | 39 | 60.01 | 15 | 64.13 | 46 | 49.75 | 28 |
| 24 | 18.01 | 71 | 1.66 | 5 | 13.49 | 39 | 59.86 | 12 | 64.59 | 49 | 49.47 | 26 |
| 25 | 18.72 | 68 | 1.71 | 7 | 13.88 | 39 | 59.74 | 10 | 65.08 | 50 | 49.21 | 25 |
| 26 | 19.40 | 66 | 1.78 | 9 | 14.27 | 39 | 59.64 | 8 | 65.58 | 53 | 48.96 | 22 |
| 27 | 20.06 | 63 | 1.87 | 9 | 14.66 | 38 | 59.56 | 6 | 66.11 | 51 | 48.74 | 21 |
| 28 | 20.69 | 61 | 1.96 | 10 | 15.04 | 36 | 59.50 | 6 | 66.62 | 49 | 48.53 | 20 |
| 29 | 21.30 | 58 | 2.06 | 10 | 15.40 | 35 | 59.44 | 5 | 67.11 | 48 | 48.33 | 19 |
| 30 | 21.88 | 57 | 2.16 | 9 | 15.75 | 34 | 59.39 | 6 | 67.59 | 46 | 48.14 | 19 |
| 31 | 22.45 | 58 | 2.25 | 8 | 16.09 | 34 | 59.33 | 7 | 68.05 | 45 | 47.95 | 20 |
| Febr. 1 | 23.03 | 60 | 2.33 | 8 | 16.43 | 35 | 59.26 | 9 | 68.50 | 46 | 47.75 | 21 |
| 2 | 23.63 | 62 | 2.41 | 7 | 16.78 | 36 | 59.17 | 9 | 68.96 | 47 | 47.54 | 23 |
| 3 | 24.25 | 66 | 2.48 | 6 | 17.14 | 38 | 59.08 | 10 | 69.43 | 49 | 47.31 | 24 |
| 4 | 24.91 | 68 | 2.54 | 9 | 17.52 | 40 | 58.98 | 9 | 69.92 | 52 | 47.07 | 24 |
| 5 | 25.59 | 70 | 2.63 | 10 | 17.92 | 40 | 58.89 | 8 | 70.44 | 55 | 46.83 | 24 |
| 6 | 26.29 | | 2.73 | | 18.32 | | 58.81 | | 70.99 | | 46.59 | |
| O. K. | + 0s.55 cos φ | | | | + 0s.32 cos φ | | | | + 0s.52 cos φ | | | |
| U. K. | − 0 .55 cos φ | | | | − 0 .32 cos φ | | | | − 0 .52 cos φ | | | |

## Obere Kulmination.

| 1911 | Octantis 20 G. $7^m$. | | | | Octantis 26 G. $6^m-7^m$. | | | | χ Octantis. $6^m$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | $14^h\ 43^m$ | | $-87°\ 47'$ | | $16^h\ 27^m$ | | $-86°\ 11'$ | | $18^h\ 2^m$ | | $-87°\ 39'$ | |
| Febr. 6 | $26^s.29$ | 70 | $2''.73$ | 12 | $18^s.32$ | 43 | $58''.81$ | 7 | $10^s.99$ | 59 | $46''.59$ | 22 |
| 7 | 26.99 | 70 | 2.85 | 14 | 18.75 | 44 | 58.74 | 4 | 11.58 | 61 | 46.37 | 21 |
| 8 | 27.69 | 68 | 2.99 | 16 | 19.19 | 42 | 58.70 | 1 | 12.19 | 62 | 46.16 | 18 |
| 9 | 28.37 | 65 | 3.15 | 18 | 19.61 | 42 | 58.69 | 1 | 12.81 | 62 | 45.98 | 17 |
| 10 | 29.02 | 62 | 3.33 | 18 | 20.03 | 41 | 58.68 | — 1 | 13.43 | 60 | 45.81 | 15 |
| 11 | 29.64 | 58 | 3.51 | 18 | 20.44 | 39 | 58.69 | 2 | 14.03 | 58 | 45.66 | 14 |
| 12 | 30.22 | 56 | 3.69 | 17 | 20.83 | 37 | 58.71 | 2 | 14.61 | 55 | 45.52 | 13 |
| 13 | 30.78 | 55 | 3.86 | 16 | 21.20 | 36 | 58.73 | 1 | 15.16 | 54 | 45.39 | 13 |
| 14 | 31.33 | 55 | 4.02 | 16 | 21.56 | 36 | 58.74 | 0 | 15.70 | 52 | 45.26 | 14 |
| 15 | 31.88 | 57 | 4.18 | 14 | 21.92 | 37 | 58.74 | 2 | 16.22 | 51 | 45.12 | 17 |
| 16 | 32.45 | 60 | 4.32 | 13 | 22.29 | 37 | 58.72 | 2 | 16.73 | 54 | 44.95 | 17 |
| 17 | 33.05 | 61 | 4.45 | 14 | 22.66 | 38 | 58.70 | 4 | 17.27 | 56 | 44.78 | 18 |
| 18 | 33.66 | 63 | 4.59 | 14 | 23.04 | 41 | 58.66 | 2 | 17.83 | 58 | 44.60 | 18 |
| 19 | 34.29 | 66 | 4.73 | 17 | 23.45 | 42 | 58.64 | 1 | 18.41 | 61 | 44.42 | 18 |
| 20 | 34.95 | 66 | 4.90 | 19 | 23.87 | 43 | 58.63 | 0 | 19.02 | 63 | 44.24 | 16 |
| 21 | 35.61 | 64 | 5.09 | 21 | 24.30 | 43 | 58.63 | 3 | 19.65 | 66 | 44.08 | 14 |
| 22 | 36.25 | 62 | 5.30 | 22 | 24.73 | 42 | 58.66 | 6 | 20.31 | 66 | 43.94 | 11 |
| 23 | 36.87 | 58 | 5.52 | 24 | 25.15 | 42 | 58.72 | 7 | 20.97 | 66 | 43.83 | 10 |
| 24 | 37.45 | 56 | 5.76 | 25 | 25.57 | 40 | 58.79 | 9 | 21.63 | 64 | 43.73 | 7 |
| 25 | 38.01 | 52 | 6.01 | 25 | 25.97 | 38 | 58.88 | 9 | 22.27 | 61 | 43.66 | 7 |
| 26 | 38.53 | 50 | 6.26 | 23 | 26.35 | 37 | 58.97 | 8 | 22.88 | 61 | 43.59 | 7 |
| 27 | 39.03 | 51 | 6.49 | 22 | 26.72 | 36 | 59.05 | 7 | 23.49 | 58 | 43.52 | 7 |
| 28 | 39.54 | 52 | 6.71 | 21 | 27.08 | 36 | 59.12 | 7 | 24.07 | 58 | 43.45 | 9 |
| März 1 | 40.06 | 53 | 6.92 | 21 | 27.44 | 38 | 59.19 | 5 | 24.65 | 58 | 43.36 | 10 |
| 2 | 40.59 | 55 | 7.13 | 21 | 27.82 | 39 | 59.24 | 5 | 25.23 | 59 | 43.26 | 11 |
| 3 | 41.14 | 57 | 7.34 | 21 | 28.21 | 40 | 59.29 | 4 | 25.82 | 62 | 43.15 | 11 |
| 4 | 41.71 | 59 | 7.55 | 21 | 28.61 | 41 | 59.33 | 6 | 26.44 | 65 | 43.04 | 12 |
| 5 | 42.30 | 60 | 7.76 | 24 | 29.02 | 43 | 59.39 | 7 | 27.09 | 68 | 42.92 | 11 |
| 6 | 42.90 | 60 | 8.00 | 27 | 29.45 | 44 | 59.46 | 9 | 27.77 | 70 | 42.81 | 9 |
| 7 | 43.50 | 59 | 8.27 | 28 | 29.89 | 43 | 59.55 | 11 | 28.47 | 71 | 42.72 | 7 |
| 8 | 44.09 | 55 | 8.55 | 30 | 30.32 | 42 | 59.66 | 12 | 29.18 | 71 | 42.65 | 5 |
| 9 | 44.64 | 51 | 8.85 | 31 | 30.74 | 41 | 59.78 | 15 | 29.89 | 70 | 42.60 | 2 |
| 10 | 45.15 | 48 | 9.16 | 31 | 31.15 | 39 | 59.93 | 16 | 30.59 | 67 | 42.58 | 1 |
| 11 | 45.63 | 46 | 9.47 | 29 | 31.54 | 37 | 60.09 | 16 | 31.26 | 65 | 42.57 | 0 |
| 12 | 46.09 | 44 | 9.76 | 28 | 31.91 | 35 | 60.25 | 14 | 31.91 | 62 | 42.57 | 1 |
| 13 | 46.53 | 43 | 10.04 | 27 | 32.26 | 35 | 60.39 | 14 | 32.53 | 59 | 42.56 | 1 |
| 14 | 46.96 | 43 | 10.31 | 26 | 32.61 | 34 | 60.53 | 12 | 33.12 | 59 | 42.55 | 2 |
| 15 | 47.39 | | 10.57 | | 32.95 | | 60.65 | | 33.71 | | 42.53 | |
| O. K. | $+0^s.55 \cos\varphi$ | | | | $+0^s.32 \cos\varphi$ | | | | $+0^s.52 \cos\varphi$ | | | |
| U. K. | $-0.55 \cos\varphi$ | | | | $-0^s.32 \cos\varphi$ | | | | $-0.52 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | Octantis 20 G. $7^m$. AR. | | Dekl. | | Octantis 26 G. $6^m$–$7^m$. AR. | | Dekl. | | χ Octantis. $6^m$. AR. | | Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $14^h\ 43^m$ | | $-87°\ 47'$ | | $16^h\ 27^m$ | | $-86°\ 12'$ | | $18^h\ 2^m$ | | $-87°\ 39'$ | |
| März 15 | 47.39 | 45 | 10.57 | 26 | 32.95 | 35 | 0.65 | 11 | 33.71 | 59 | 42.53 | 4 |
| 16 | 47.84 | 48 | 10.83 | 25 | 33.30 | 36 | 0.76 | 10 | 34.30 | 61 | 42.49 | 5 |
| 17 | 48.32 | 50 | 11.08 | 25 | 33.66 | 38 | 0.86 | 11 | 34.91 | 63 | 42.44 | 5 |
| 18 | 48.82 | 52 | 11.33 | 27 | 34.04 | 39 | 0.97 | 11 | 35.54 | 66 | 42.39 | 4 |
| 19 | 49.34 | 51 | 11.60 | 29 | 34.43 | 40 | 1.08 | 14 | 36.20 | 67 | 42.35 | 4 |
| 20 | 49.85 | 50 | 11.89 | 30 | 34.83 | 40 | 1.22 | 15 | 36.87 | 70 | 42.31 | 2 |
| 21 | 50.35 | 47 | 12.19 | 33 | 35.23 | 40 | 1.37 | 17 | 37.57 | 71 | 42.29 | 0 |
| 22 | 50.82 | 44 | 12.52 | 34 | 35.63 | 39 | 1.54 | 20 | 38.28 | 69 | 42.29 | 3 |
| 23 | 51.26 | 42 | 12.86 | 35 | 36.02 | 36 | 1.74 | 20 | 38.97 | 68 | 42.32 | 5 |
| 24 | 51.68 | 38 | 13.21 | 34 | 36.38 | 35 | 1.94 | 22 | 39.65 | 66 | 42.37 | 6 |
| 25 | 52.06 | 35 | 13.55 | 33 | 36.73 | 34 | 2.16 | 21 | 40.31 | 63 | 42.43 | 7 |
| 26 | 52.41 | 34 | 13.88 | 32 | 37.07 | 32 | 2.37 | 20 | 40.94 | 61 | 42.50 | 6 |
| 27 | 52.75 | 34 | 14.20 | 31 | 37.39 | 32 | 2.57 | 19 | 41.55 | 60 | 42.56 | 5 |
| 28 | 53.09 | 35 | 14.51 | 30 | 37.71 | 32 | 2.76 | 19 | 42.15 | 59 | 42.61 | 3 |
| 29 | 53.44 | 38 | 14.81 | 30 | 38.03 | 33 | 2.95 | 17 | 42.74 | 60 | 42.64 | 2 |
| 30 | 53.82 | 40 | 15.11 | 30 | 38.36 | 34 | 3.12 | 16 | 43.34 | 61 | 42.66 | 2 |
| 31 | 54.22 | 42 | 15.41 | 30 | 38.70 | 36 | 3.28 | 16 | 43.95 | 64 | 42.68 | 1 |
| April 1 | 54.64 | 42 | 15.71 | 32 | 39.06 | 37 | 3.44 | 18 | 44.59 | 66 | 42.69 | 3 |
| 2 | 55.06 | 43 | 16.03 | 33 | 39.43 | 38 | 3.62 | 20 | 45.25 | 70 | 42.72 | 5 |
| 3 | 55.49 | 42 | 16.36 | 36 | 39.81 | 37 | 3.82 | 22 | 45.95 | 71 | 42.77 | 5 |
| 4 | 55.91 | 38 | 16.72 | 37 | 40.18 | 37 | 4.04 | 24 | 46.66 | 70 | 42.82 | 8 |
| 5 | 56.29 | 34 | 17.09 | 38 | 40.55 | 35 | 4.28 | 25 | 47.36 | 69 | 42.90 | 9 |
| 6 | 56.63 | 31 | 17.47 | 38 | 40.90 | 33 | 4.53 | 27 | 48.05 | 67 | 42.99 | 11 |
| 7 | 56.94 | 27 | 17.85 | 37 | 41.23 | 31 | 4.80 | 27 | 48.72 | 63 | 43.10 | 13 |
| 8 | 57.21 | 25 | 18.22 | 37 | 41.54 | 30 | 5.07 | 26 | 49.35 | 60 | 43.23 | 13 |
| 9 | 57.46 | 23 | 18.59 | 35 | 41.84 | 28 | 5.33 | 26 | 49.95 | 58 | 43.36 | 12 |
| 10 | 57.69 | 23 | 18.94 | 33 | 42.12 | 27 | 5.59 | 23 | 50.53 | 56 | 43.48 | 11 |
| 11 | 57.92 | 25 | 19.27 | 32 | 42.39 | 28 | 5.82 | 22 | 51.09 | 55 | 43.59 | 10 |
| 12 | 58.17 | 27 | 19.59 | 31 | 42.67 | 28 | 6.04 | 22 | 51.64 | 56 | 43.69 | 9 |
| 13 | 58.44 | 29 | 19.90 | 31 | 42.95 | 29 | 6.26 | 21 | 52.20 | 58 | 43.78 | 7 |
| 14 | 58.73 | 30 | 20.21 | 32 | 43.24 | 31 | 6.47 | 21 | 52.78 | 60 | 43.85 | 8 |
| 15 | 59.03 | 31 | 20.53 | 33 | 43.55 | 32 | 6.68 | 23 | 53.38 | 61 | 43.93 | 9 |
| 16 | 59.34 | 30 | 20.86 | 36 | 43.87 | 32 | 6.91 | 24 | 53.99 | 64 | 44.02 | 10 |
| 17 | 59.64 | 28 | 21.22 | 37 | 44.19 | 32 | 7.15 | 27 | 54.63 | 65 | 44.12 | 12 |
| 18 | 59.92 | 25 | 21.59 | 39 | 44.51 | 30 | 7.42 | 28 | 55.28 | 64 | 44.24 | 14 |
| 19 | 60.17 | 22 | 21.98 | 40 | 44.81 | 29 | 7.70 | 30 | 55.92 | 62 | 44.38 | 17 |
| 20 | 60.39 | 18 | 22.38 | 39 | 45.10 | 27 | 8.00 | 31 | 56.54 | 60 | 44.55 | 18 |
| 21 | 60.57 | | 22.77 | | 45.37 | | 8.31 | | 57.14 | | 44.73 | |
| O. K. | + 0ˢ.55 cos φ | | | | + 0ˢ.32 cos φ | | | | + 0ˢ.52 cos φ | | | |
| U. K. | — 0 .55 cos φ | | | | — 0 .32 cos φ | | | | — 0 .52 cos φ | | | |

# Obere Kulmination.

| 1911 | Octantis 20 G. $7^m$. AR. | | Octantis 20 G. $7^m$. Dekl. | | Octantis 26 G. $6^m-7^m$. AR. | | Octantis 26 G. $6^m-7^m$. Dekl. | | χ Octantis. $6^m$. AR. | | χ Octantis. $6^m$. Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $14^h\ 44^m$ | | $-87°\ 47'$ | | $16^h\ 27^m$ | | $-86°\ 12'$ | | $18^h\ 2^m$ | | $-87°\ 39'$ | |
| April 21 | 0.57 | 15 | 22.77 | 39 | 45.37 | 25 | 8.31 | 30 | 57.14 | 57 | 44.73 | 18 |
| 22 | 0.72 | 12 | 23.16 | 36 | 45.62 | 23 | 8.61 | 30 | 57.71 | 54 | 44.91 | 19 |
| 23 | 0.84 | 11 | 23.52 | 36 | 45.85 | 22 | 8.91 | 30 | 58.25 | 52 | 45.10 | 18 |
| 24 | 0.95 | 13 | 23.88 | 34 | 46.07 | 23 | 9.21 | 27 | 58.77 | 51 | 45.28 | 17 |
| 25 | 1.08 | 15 | 24.22 | 33 | 46.30 | 22 | 9.48 | 25 | 59.28 | 51 | 45.45 | 15 |
| 26 | 1.23 | 17 | 24.55 | 33 | 46.52 | 23 | 9.73 | 26 | 59.79 | 53 | 45.60 | 14 |
| 27 | 1.40 | 19 | 24.88 | 34 | 46.75 | 25 | 9.99 | 25 | 60.32 | 54 | 45.74 | 13 |
| 28 | 1.59 | 20 | 25.22 | 35 | 47.00 | 25 | 10.24 | 26 | 60.86 | 56 | 45.87 | 14 |
| 29 | 1.79 | 20 | 25.57 | 35 | 47.25 | 27 | 10.50 | 28 | 61.42 | 59 | 46.01 | 15 |
| 30 | 1.99 | 19 | 25.92 | 38 | 47.52 | 29 | 10.78 | 29 | 62.01 | 59 | 46.16 | 16 |
| Mai 1 | 2.18 | 16 | 26.30 | 40 | 47.81 | 27 | 11.07 | 30 | 62.60 | 60 | 46.32 | 18 |
| 2 | 2.34 | 14 | 26.70 | 41 | 48.08 | 26 | 11.37 | 33 | 63.20 | 59 | 46.50 | 21 |
| 3 | 2.48 | 10 | 27.11 | 40 | 48.34 | 23 | 11.70 | 34 | 63.79 | 57 | 46.71 | 23 |
| 4 | 2.58 | 6 | 27.51 | 40 | 48.57 | 21 | 12.04 | 34 | 64.36 | 53 | 46.94 | 24 |
| 5 | 2.64 | 2 | 27.91 | 39 | 48.78 | 19 | 12.38 | 33 | 64.89 | 50 | 47.18 | 24 |
| 6 | 2.66 | 1 | 28.30 | 36 | 48.97 | 16 | 12.71 | 33 | 65.39 | 47 | 47.42 | 23 |
| 7 | 2.67 | 0 | 28.66 | 35 | 49.13 | 17 | 13.04 | 32 | 65.86 | 44 | 47.65 | 23 |
| 8 | 2.67 | 0 | 29.01 | 33 | 49.30 | 16 | 13.36 | 29 | 66.30 | 43 | 47.88 | 21 |
| 9 | 2.67 | 2 | 29.34 | 33 | 49.46 | 16 | 13.65 | 28 | 66.73 | 43 | 48.09 | 20 |
| 10 | 2.69 | 5 | 29.67 | 32 | 49.62 | 17 | 13.93 | 27 | 67.16 | 44 | 48.29 | 19 |
| 11 | 2.74 | 6 | 29.99 | 32 | 49.79 | 18 | 14.20 | 28 | 67.60 | 45 | 48.48 | 18 |
| 12 | 2.80 | 8 | 30.31 | 34 | 49.97 | 19 | 14.48 | 29 | 68.05 | 48 | 48.66 | 19 |
| 13 | 2.88 | 7 | 30.65 | 35 | 50.16 | 20 | 14.77 | 30 | 68.53 | 49 | 48.85 | 20 |
| 14 | 2.95 | 5 | 31.00 | 36 | 50.36 | 19 | 15.07 | 31 | 69.02 | 49 | 49.05 | 22 |
| 15 | 3.00 | 2 | 31.36 | 37 | 50.55 | 18 | 15.38 | 34 | 69.51 | 49 | 49.27 | 24 |
| 16 | 3.02 | 2 | 31.73 | 39 | 50.73 | 17 | 15.72 | 35 | 70.00 | 48 | 49.51 | 26 |
| 17 | 3.00 | 5 | 32.12 | 39 | 50.90 | 15 | 16.07 | 35 | 70.48 | 46 | 49.77 | 27 |
| 18 | 2.95 | 8 | 32.51 | 38 | 51.05 | 13 | 16.42 | 36 | 70.94 | 43 | 50.04 | 28 |
| 19 | 2.87 | 10 | 32.89 | 36 | 51.18 | 11 | 16.78 | 36 | 71.37 | 39 | 50.32 | 29 |
| 20 | 2.77 | 13 | 33.25 | 35 | 51.29 | 9 | 17.14 | 34 | 71.76 | 36 | 50.61 | 27 |
| 21 | 2.64 | 12 | 33.60 | 34 | 51.38 | 10 | 17.48 | 32 | 72.12 | 35 | 50.88 | 27 |
| 22 | 2.52 | 10 | 33.94 | 31 | 51.48 | 9 | 17.80 | 30 | 72.47 | 34 | 51.15 | 25 |
| 23 | 2.42 | 9 | 34.25 | 30 | 51.57 | 10 | 18.10 | 30 | 72.81 | 35 | 51.40 | 24 |
| 24 | 2.33 | 6 | 34.55 | 31 | 51.67 | 11 | 18.40 | 29 | 73.16 | 35 | 51.64 | 22 |
| 25 | 2.27 | 5 | 34.86 | 31 | 51.78 | 12 | 18.69 | 29 | 73.51 | 38 | 51.86 | 23 |
| 26 | 2.22 | 4 | 35.17 | 33 | 51.90 | 13 | 18.98 | 30 | 73.89 | 40 | 52.09 | 23 |
| 27 | 2.18 | 4 | 35.50 | 35 | 52.03 | 14 | 19.28 | 32 | 74.29 | 42 | 52.32 | 24 |
| 28 | 2.14 | | 35.85 | | 52.17 | | 19.60 | | 74.71 | | 52.56 | |
| O. K. | $+0^s.55\cos\varphi$ | | | | $+0^s.32\cos\varphi$ | | | | $+0^s.52\cos\varphi$ | | | |
| U. K. | $-0.55\cos\varphi$ | | | | $-0.32\cos\varphi$ | | | | $-0.52\cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | Octantis 20 G. 7ᵐ. AR. | | Dekl. | | Octantis 26 G. 6ᵐ–7ᵐ. AR. | | Dekl. | | χ Octantis. 6ᵐ. AR. | | Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $14^h\ 43^m$ | | $-87°\ 47'$ | | $16^h\ 27^m$ | | $-86°\ 12'$ | | $18^h\ 3^m$ | | $-87°\ 39'$ | |
| Mai 28 | $62^s.14$ | 6 | $35''.85$ | 35 | $52^s.17$ | 14 | $19''.60$ | 34 | $14^s.71$ | 42 | $52''.56$ | 26 |
| 29 | 62.08 | 9 | 36.20 | 37 | 52.31 | 11 | 19.94 | 35 | 15.13 | 41 | 52.82 | 29 |
| 30 | 61.99 | 13 | 36.57 | 37 | 52.42 | 10 | 20.29 | 37 | 15.54 | 38 | 53.11 | 31 |
| 31 | 61.86 | 17 | 36.94 | 37 | 52.52 | 8 | 20.66 | 37 | 15.92 | 35 | 53.42 | 31 |
| Juni 1 | 61.69 | 21 | 37.31 | 35 | 52.60 | 6 | 21.03 | 37 | 16.27 | 32 | 53.73 | 32 |
| 2 | 61.48 | 23 | 37.66 | 33 | 52.66 | 3 | 21.40 | 36 | 16.59 | 29 | 54.05 | 32 |
| 3 | 61.25 | 24 | 37.99 | 32 | 52.69 | 1 | 21.76 | 34 | 16.88 | 27 | 54.37 | 31 |
| 4 | 61.01 | 23 | 38.31 | 30 | 52.70 | 2 | 22.10 | 32 | 17.15 | 24 | 54.68 | 30 |
| 5 | 60.78 | 22 | 38.61 | 27 | 52.72 | 2 | 22.42 | 31 | 17.39 | 23 | 54.98 | 28 |
| 6 | 60.56 | 21 | 38.88 | 27 | 52.74 | 2 | 22.73 | 29 | 17.62 | 23 | 55.26 | 26 |
| 7 | 60.35 | 18 | 39.15 | 27 | 52.76 | 4 | 23.02 | 29 | 17.85 | 24 | 55.52 | 25 |
| 8 | 60.17 | 17 | 39.42 | 28 | 52.80 | 4 | 23.31 | 28 | 18.09 | 24 | 55.77 | 26 |
| 9 | 60.00 | 16 | 39.70 | 29 | 52.84 | 5 | 23.59 | 30 | 18.33 | 27 | 56.03 | 26 |
| 10 | 59.84 | 17 | 39.99 | 30 | 52.89 | 5 | 23.89 | 31 | 18.60 | 28 | 56.29 | 28 |
| 11 | 59.67 | 20 | 40.29 | 32 | 52.94 | 4 | 24.20 | 34 | 18.88 | 29 | 56.57 | 29 |
| 12 | 59.47 | 23 | 40.61 | 32 | 52.98 | 3 | 24.54 | 34 | 19.17 | 27 | 56.86 | 32 |
| 13 | 59.24 | 27 | 40.93 | 33 | 53.01 | 1 | 24.88 | 36 | 19.44 | 24 | 57.18 | 32 |
| 14 | 58.97 | 30 | 41.26 | 31 | 53.02 | 1 | 25.24 | 35 | 19.68 | 22 | 57.50 | 34 |
| 15 | 58.67 | 33 | 41.57 | 30 | 53.01 | 4 | 25.59 | 36 | 19.90 | 19 | 57.84 | 35 |
| 16 | 58.34 | 35 | 41.87 | 28 | 52.97 | 4 | 25.95 | 34 | 20.09 | 15 | 58.19 | 34 |
| 17 | 57.99 | 35 | 42.15 | 26 | 52.93 | 6 | 26.29 | 33 | 20.24 | 13 | 58.53 | 33 |
| 18 | 57.64 | 33 | 42.41 | 25 | 52.87 | 6 | 26.62 | 30 | 20.37 | 11 | 58.86 | 31 |
| 19 | 57.31 | 32 | 42.66 | 24 | 52.81 | 5 | 26.92 | 29 | 20.48 | 11 | 59.17 | 29 |
| 20 | 56.99 | 30 | 42.90 | 23 | 52.76 | 5 | 27.21 | 27 | 20.59 | 13 | 59.46 | 28 |
| 21 | 56.69 | 28 | 43.13 | 23 | 52.71 | 3 | 27.48 | 27 | 20.72 | 13 | 59.74 | 27 |
| 22 | 56.41 | 26 | 43.36 | 24 | 52.68 | 2 | 27.75 | 28 | 20.85 | 16 | 60.01 | 27 |
| 23 | 56.15 | 26 | 43.60 | 26 | 52.66 | 1 | 28.03 | 30 | 21.01 | 17 | 60.28 | 28 |
| 24 | 55.89 | 26 | 43.86 | 26 | 52.65 | 2 | 28.33 | 31 | 21.18 | 19 | 60.56 | 30 |
| 25 | 55.63 | 29 | 44.12 | 27 | 52.63 | 3 | 28.64 | 31 | 21.37 | 17 | 60.86 | 32 |
| 26 | 55.34 | 33 | 44.39 | 28 | 52.60 | 4 | 28.95 | 33 | 21.54 | 16 | 61.18 | 33 |
| 27 | 55.01 | 37 | 44.67 | 28 | 52.56 | 6 | 29.28 | 34 | 21.70 | 13 | 61.51 | 35 |
| 28 | 54.64 | 40 | 44.95 | 28 | 52.50 | 9 | 29.62 | 34 | 21.83 | 10 | 61.86 | 35 |
| 29 | 54.24 | 42 | 45.23 | 25 | 52.41 | 11 | 29.96 | 33 | 21.93 | 6 | 62.21 | 35 |
| 30 | 53.82 | 44 | 45.48 | 22 | 52.30 | 13 | 30.29 | 31 | 21.99 | 1 | 62.56 | 35 |
| Juli 1 | 53.38 | 44 | 45.70 | 21 | 52.17 | 12 | 30.60 | 30 | 22.00 | 0 | 62.91 | 33 |
| 2 | 52.94 | 44 | 45.91 | 18 | 52.05 | 13 | 30.90 | 27 | 22.00 | 2 | 63.24 | 30 |
| 3 | 52.50 | 41 | 46.09 | 17 | 51.92 | 13 | 31.17 | 26 | 21.98 | 3 | 63.54 | 30 |
| 4 | 52.09 | | 46.26 | | 51.79 | | 31.43 | | 21.95 | | 63.84 | |
| O. K. | $+0^s.55 \cos\varphi$ | | | | $+0^s.32 \cos\varphi$ | | | | $+0^s.52 \cos\varphi$ | | | |
| U. K. | $-0.55 \cos\varphi$ | | | | $-0.32 \cos\varphi$ | | | | $-0.52 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | Octantis 20 G. $7^m$. | | | | Octantis 26 G. $6^m - 7^m$. | | | | χ Octantis. $6^m$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | $14^h 43^m$ | | $-87° 47'$ | | $16^h 27^m$ | | $-86° 12'$ | | $18^h 3^m$ | | $-87° 40'$ | |
| Juli 4 | 52.09 | 38 | 46.26 | 16 | 51.79 | 12 | 31.43 | 24 | 21.95 | 1 | 3.84 | 28 |
| 5 | 51.71 | 36 | 46.42 | 17 | 51.67 | 11 | 31.67 | 24 | 21.94 | 0 | 4.12 | 27 |
| 6 | 51.35 | 36 | 46.59 | 18 | 51.56 | 11 | 31.91 | 24 | 21.94 | 1 | 4.39 | 27 |
| 7 | 50.99 | 36 | 46.77 | 18 | 51.45 | 10 | 32.15 | 26 | 21.95 | 2 | 4.66 | 28 |
| 8 | 50.63 | 38 | 46.95 | 19 | 51.35 | 9 | 32.41 | 27 | 21.97 | 3 | 4.94 | 30 |
| 9 | 50.25 | 40 | 47.14 | 21 | 51.26 | 12 | 32.68 | 28 | 22.00 | 3 | 5.24 | 32 |
| 10 | 49.85 | 43 | 47.35 | 21 | 51.14 | 13 | 32.96 | 30 | 22.03 | 0 | 5.56 | 32 |
| 11 | 49.42 | 47 | 47.56 | 20 | 51.01 | 15 | 33.26 | 30 | 22.03 | 3 | 5.88 | 34 |
| 12 | 48.95 | 49 | 47.76 | 19 | 50.86 | 16 | 33.56 | 30 | 22.00 | 6 | 6.22 | 35 |
| 13 | 48.46 | 51 | 47.95 | 17 | 50.70 | 19 | 33.86 | 28 | 21.94 | 9 | 6.57 | 34 |
| 14 | 47.95 | 52 | 48.12 | 16 | 50.51 | 20 | 34.14 | 26 | 21.85 | 12 | 6.91 | 33 |
| 15 | 47.43 | 51 | 48.28 | 13 | 50.31 | 21 | 34.40 | 25 | 21.73 | 13 | 7.24 | 31 |
| 16 | 46.92 | 50 | 48.41 | 11 | 50.10 | 20 | 34.65 | 22 | 21.60 | 15 | 7.55 | 29 |
| 17 | 46.42 | 48 | 48.52 | 10 | 49.90 | 18 | 34.87 | 21 | 21.45 | 14 | 7.84 | 27 |
| 18 | 45.94 | 44 | 48.62 | 11 | 49.72 | 18 | 35.08 | 20 | 21.31 | 13 | 8.11 | 26 |
| 19 | 45.50 | 42 | 48.73 | 11 | 49.54 | 16 | 35.28 | 19 | 21.18 | 11 | 8.37 | 26 |
| 20 | 45.08 | 40 | 48.84 | 11 | 49.38 | 15 | 35.47 | 21 | 21.07 | 9 | 8.63 | 25 |
| 21 | 44.68 | 41 | 48.95 | 13 | 49.23 | 15 | 35.68 | 21 | 20.98 | 7 | 8.88 | 27 |
| 22 | 44.27 | 43 | 49.08 | 14 | 49.08 | 16 | 35.89 | 23 | 20.91 | 8 | 9.15 | 28 |
| 23 | 43.84 | 45 | 49.22 | 14 | 48.92 | 16 | 36.12 | 24 | 20.83 | 10 | 9.43 | 30 |
| 24 | 43.39 | 49 | 49.36 | 15 | 48.76 | 19 | 36.36 | 25 | 20.73 | 11 | 9.73 | 31 |
| 25 | 42.90 | 52 | 49.51 | 13 | 48.57 | 21 | 36.61 | 25 | 20.62 | 14 | 10.04 | 32 |
| 26 | 42.38 | 55 | 49.64 | 12 | 48.36 | 23 | 36.86 | 23 | 20.48 | 18 | 10.36 | 32 |
| 27 | 41.83 | 56 | 49.76 | 10 | 48.13 | 25 | 37.09 | 23 | 20.30 | 21 | 10.68 | 31 |
| 28 | 41.27 | 56 | 49.86 | 8 | 47.88 | 25 | 37.32 | 21 | 20.09 | 24 | 10.99 | 29 |
| 29 | 40.71 | 55 | 49.94 | 5 | 47.63 | 26 | 37.53 | 19 | 19.85 | 27 | 11.28 | 28 |
| 30 | 40.16 | 54 | 49.99 | 3 | 47.37 | 26 | 37.72 | 17 | 19.58 | 28 | 11.56 | 25 |
| 31 | 39.62 | 50 | 50.02 | 2 | 47.11 | 24 | 37.89 | 15 | 19.30 | 28 | 11.81 | 24 |
| Aug. 1 | 39.12 | 48 | 50.04 | 1 | 46.87 | 24 | 38.04 | 14 | 19.02 | 25 | 12.05 | 22 |
| 2 | 38.64 | 46 | 50.05 | 2 | 46.63 | 22 | 38.18 | 13 | 18.77 | 24 | 12.27 | 22 |
| 3 | 38.18 | 46 | 50.07 | 4 | 46.41 | 22 | 38.31 | 15 | 18.53 | 22 | 12.49 | 23 |
| 4 | 37.72 | 46 | 50.11 | 5 | 46.19 | 22 | 38.46 | 16 | 18.31 | 22 | 12.72 | 24 |
| 5 | 37.26 | 48 | 50.16 | 5 | 45.97 | 22 | 38.62 | 18 | 18.09 | 22 | 12.96 | 25 |
| 6 | 36.78 | 51 | 50.21 | 6 | 45.75 | 23 | 38.80 | 18 | 17.87 | 23 | 13.21 | 26 |
| 7 | 36.27 | 53 | 50.27 | 5 | 45.52 | 25 | 38.98 | 18 | 17.64 | 25 | 13.47 | 28 |
| 8 | 35.74 | 57 | 50.32 | 5 | 45.27 | 27 | 39.16 | 17 | 17.39 | 28 | 13.75 | 28 |
| 9 | 35.17 | 58 | 50.37 | 3 | 45.00 | 29 | 39.33 | 17 | 17.11 | 32 | 14.03 | 28 |
| 10 | 34.59 | | 50.40 | | 44.71 | | 39.50 | | 16.79 | | 14.31 | |
| O. K. | $+ 0^s.55 \cos\varphi$ | | | | $+ 0^s.32 \cos\varphi$ | | | | $+ 0^s.52 \cos\varphi$ | | | |
| U. K. | $- 0.55 \cos\varphi$ | | | | $- 0.32 \cos\varphi$ | | | | $- 0.52 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | Octantis 20 G. $7^m$. | | | | Octantis 26 G. $6^m-7^m$. | | | | χ Octantis. $6^m$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | Diff. | Dekl. | Diff. | AR. | Diff. | Dekl. | Diff. | AR. | Diff. | Dekl. | Diff. |
| | $14^h\ 43^m$ | | $-87°\ 47'$ | | $16^h\ 27^m$ | | $-86°\ 12'$ | | $18^h\ 3^m$ | | $-87°\ 40'$ | |
| | s | | ″ | | s | | ″ | | s | | ″ | |
| Aug. 10 | 34.59 | 59 | 50.40 | 0 | 44.71 | 30 | 39.50 | 15 | 16.79 | 35 | 14.31 | 26 |
| 11 | 34.00 | 58 | 50.40 | 1 | 44.41 | 31 | 39.65 | 13 | 16.44 | 37 | 14.57 | 24 |
| 12 | 33.42 | 56 | 50.39 | 4 | 44.10 | 30 | 39.78 | 11 | 16.07 | 38 | 14.81 | 22 |
| 13 | 32.86 | 53 | 50.35 | 4 | 43.80 | 29 | 39.89 | 9 | 15.69 | 38 | 15.03 | 20 |
| 14 | 32.33 | 51 | 50.31 | 6 | 43.51 | 27 | 39.98 | 8 | 15.31 | 36 | 15.23 | 19 |
| 15 | 31.82 | 47 | 50.25 | 5 | 43.24 | 27 | 40.06 | 7 | 14.95 | 34 | 15.42 | 18 |
| 16 | 31.35 | 45 | 50.20 | 4 | 42.97 | 25 | 40.13 | 7 | 14.61 | 32 | 15.60 | 18 |
| 17 | 30.90 | 45 | 50.16 | 4 | 42.72 | 24 | 40.20 | 8 | 14.29 | 30 | 15.78 | 18 |
| 18 | 30.45 | 45 | 50.12 | 2 | 42.48 | 24 | 40.28 | 10 | 13.99 | 29 | 15.96 | 19 |
| 19 | 30.00 | 47 | 50.10 | 1 | 42.24 | 25 | 40.38 | 11 | 13.70 | 30 | 16.15 | 20 |
| 20 | 29.53 | 49 | 50.09 | 2 | 41.99 | 26 | 40.49 | 11 | 13.40 | 32 | 16.35 | 21 |
| 21 | 29.04 | 53 | 50.07 | 2 | 41.73 | 28 | 40.60 | 12 | 13.08 | 35 | 16.56 | 22 |
| 22 | 28.51 | 55 | 50.05 | 3 | 41.45 | 30 | 40.72 | 11 | 12.73 | 38 | 16.78 | 22 |
| 23 | 27.96 | 57 | 50.02 | 6 | 41.15 | 32 | 40.83 | 9 | 12.35 | 40 | 17.00 | 22 |
| 24 | 27.39 | 56 | 49.96 | 8 | 40.83 | 32 | 40.92 | 7 | 11.95 | 44 | 17.22 | 20 |
| 25 | 26.83 | 55 | 49.88 | 10 | 40.51 | 33 | 40.99 | 4 | 11.51 | 47 | 17.42 | 18 |
| 26 | 26.28 | 54 | 49.78 | 11 | 40.18 | 33 | 41.03 | 3 | 11.04 | 47 | 17.60 | 16 |
| 27 | 25.74 | 51 | 49.67 | 14 | 39.85 | 32 | 41.06 | 1 | 10.57 | 46 | 17.76 | 14 |
| 28 | 25.23 | 47 | 49.53 | 14 | 39.53 | 30 | 41.07 | $\overline{1}$ | 10.11 | 45 | 17.90 | 11 |
| 29 | 24.76 | 44 | 49.39 | 14 | 39.23 | 29 | 41.06 | 1 | 9.66 | 44 | 18.01 | 11 |
| 30 | 24.32 | 43 | 49.25 | 12 | 38.94 | 28 | 41.05 | 1 | 9.22 | 42 | 18.12 | 11 |
| 31 | 23.89 | 42 | 49.13 | 12 | 38.66 | 27 | 41.04 | $\overline{1}$ | 8.80 | 39 | 18.23 | 12 |
| Sept. 1 | 23.47 | 44 | 49.01 | 10 | 38.39 | 27 | 41.05 | 1 | 8.41 | 39 | 18.35 | 12 |
| 2 | 23.03 | 44 | 48.91 | 10 | 38.12 | 27 | 41.06 | 2 | 8.02 | 40 | 18.47 | 14 |
| 3 | 22.59 | 48 | 48.81 | 10 | 37.85 | 29 | 41.08 | 2 | 7.62 | 42 | 18.61 | 15 |
| 4 | 22.11 | 51 | 48.71 | 11 | 37.56 | 31 | 41.10 | 4 | 7.20 | 43 | 18.76 | 16 |
| 5 | 21.60 | 51 | 48.60 | 12 | 37.25 | 32 | 41.14 | 3 | 6.77 | 47 | 18.92 | 14 |
| 6 | 21.09 | 52 | 48.48 | 14 | 36.93 | 33 | 41.17 | 0 | 6.30 | 50 | 19.06 | 14 |
| 7 | 20.57 | 52 | 48.34 | 16 | 36.60 | 34 | 41.17 | 1 | 5.80 | 51 | 19.20 | 12 |
| 8 | 20.05 | 50 | 48.18 | 18 | 36.26 | 33 | 41.16 | 4 | 5.29 | 52 | 19.32 | 10 |
| 9 | 19.55 | 46 | 48.00 | 21 | 35.93 | 33 | 41.12 | 6 | 4.77 | 53 | 19.42 | 8 |
| 10 | 19.09 | 43 | 47.79 | 21 | 35.60 | 31 | 41.06 | 8 | 4.24 | 52 | 19.50 | 6 |
| 11 | 18.66 | 39 | 47.58 | 20 | 35.29 | 30 | 40.98 | 9 | 3.72 | 49 | 19.56 | 4 |
| 12 | 18.27 | 37 | 47.38 | 20 | 34.99 | 27 | 40.89 | 8 | 3.23 | 47 | 19.60 | 4 |
| 13 | 17.90 | 35 | 47.18 | 18 | 34.72 | 26 | 40.81 | 8 | 2.76 | 44 | 19.64 | 4 |
| 14 | 17.55 | 34 | 47.00 | 18 | 34.46 | 24 | 40.73 | 7 | 2.32 | 42 | 19.68 | 4 |
| 15 | 17.21 | 35 | 46.82 | 17 | 34.22 | 26 | 40.66 | 5 | 1.90 | 42 | 19.72 | 5 |
| 16 | 16.86 | | 46.65 | | 33.96 | | 40.61 | | 1.48 | | 19.77 | |
| O. K. | $+0^s.55 \cos\varphi$ | | | | $+0^s.32 \cos\varphi$ | | | | $+0^s.52 \cos\varphi$ | | | |
| U. K. | $-0.55 \cos\varphi$ | | | | $-0.32 \cos\varphi$ | | | | $-0.52 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | Octantis 20 G. 7ᵐ. | | | | Octantis 26 G. 6ᵐ–7ᵐ. | | | | χ Octantis. 6ᵐ. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | $14^h\ 43^m$ | | $-87°\ 47'$ | | $16^h\ 27^m$ | | $-86°\ 12'$ | | $18^h\ 2^m$ | | $-87°\ 40'$ | |
| Sept. 16 | $16\overset{s}{.}86$ | 37 | $46\overset{''}{.}65$ | 15 | $33\overset{s}{.}96$ | 26 | $40\overset{''}{.}61$ | 5 | $61\overset{s}{.}48$ | 42 | $19\overset{''}{.}77$ | 7 |
| 17 | 16.49 | 39 | 46.50 | 16 | 33.70 | 27 | 40.56 | 5 | 61.06 | 44 | 19.84 | 7 |
| 18 | 16.10 | 41 | 46.34 | 17 | 33.43 | 29 | 40.51 | 5 | 60.62 | 47 | 19.91 | 8 |
| 19 | 15.69 | 43 | 46.17 | 19 | 33.14 | 30 | 40.46 | 6 | 60.15 | 50 | 19.99 | 7 |
| 20 | 15.26 | 44 | 45.98 | 20 | 32.84 | 31 | 40.40 | 7 | 59.65 | 53 | 20.06 | 6 |
| 21 | 14.82 | 42 | 45.78 | 23 | 32.53 | 32 | 40.33 | 9 | 59.12 | 54 | 20.12 | 4 |
| 22 | 14.40 | 39 | 45.55 | 24 | 32.21 | 31 | 40.24 | 13 | 58.58 | 56 | 20.16 | 2 |
| 23 | 14.01 | 37 | 45.31 | 27 | 31.90 | 31 | 40.11 | 15 | 58.02 | 54 | 20.18 | 1 |
| 24 | 13.64 | 33 | 45.04 | 27 | 31.59 | 29 | 39.96 | 15 | 57.48 | 54 | 20.17 | 3 |
| 25 | 13.31 | 29 | 44.77 | 28 | 31.30 | 28 | 39.81 | 17 | 56.94 | 51 | 20.14 | 5 |
| 26 | 13.02 | 27 | 44.49 | 26 | 31.02 | 25 | 39.64 | 17 | 56.43 | 49 | 20.09 | 5 |
| 27 | 12.75 | 26 | 44.23 | 25 | 30.77 | 24 | 39.47 | 16 | 55.94 | 47 | 20.04 | 4 |
| 28 | 12.49 | 25 | 43.98 | 24 | 30.53 | 24 | 39.31 | 14 | 55.47 | 46 | 20.00 | 3 |
| 29 | 12.24 | 27 | 43.74 | 22 | 30.29 | 23 | 39.17 | 14 | 55.01 | 45 | 19.97 | 3 |
| 30 | 11.97 | 29 | 43.52 | 23 | 30.06 | 24 | 39.03 | 12 | 54.56 | 45 | 19.94 | 2 |
| Okt. 1 | 11.68 | 30 | 43.29 | 23 | 29.82 | 26 | 38.91 | 13 | 54.11 | 47 | 19.92 | 1 |
| 2 | 11.38 | 32 | 43.06 | 23 | 29.56 | 28 | 38.78 | 12 | 53.64 | 49 | 19.91 | 1 |
| 3 | 11.06 | 32 | 42.83 | 26 | 29.28 | 28 | 38.66 | 14 | 53.15 | 52 | 19.90 | 1 |
| 4 | 10.74 | 32 | 42.57 | 27 | 29.00 | 28 | 38.52 | 17 | 52.63 | 53 | 19.89 | 3 |
| 5 | 10.42 | 30 | 42.30 | 28 | 28.72 | 28 | 38.35 | 18 | 52.10 | 55 | 19.86 | 6 |
| 6 | 10.12 | 27 | 42.02 | 30 | 28.44 | 26 | 38.17 | 20 | 51.55 | 54 | 19.80 | 7 |
| 7 | 9.85 | 23 | 41.72 | 32 | 28.18 | 26 | 37.97 | 22 | 51.01 | 53 | 19.73 | 10 |
| 8 | 9.62 | 20 | 41.40 | 32 | 27.92 | 23 | 37.75 | 23 | 50.48 | 50 | 19.63 | 12 |
| 9 | 9.42 | 16 | 41.08 | 30 | 27.69 | 22 | 37.52 | 23 | 49.98 | 48 | 19.51 | 12 |
| 10 | 9.26 | 13 | 40.78 | 29 | 27.47 | 19 | 37.29 | 23 | 49.50 | 44 | 19.39 | 13 |
| 11 | 9.13 | 11 | 40.49 | 28 | 27.28 | 18 | 37.06 | 22 | 49.06 | 42 | 19.26 | 13 |
| 12 | 9.02 | 11 | 40.21 | 27 | 27.10 | 18 | 36.84 | 20 | 48.64 | 40 | 19.13 | 12 |
| 13 | 8.91 | 13 | 39.94 | 26 | 26.92 | 18 | 36.64 | 20 | 48.24 | 39 | 19.01 | 10 |
| 14 | 8.78 | 14 | 39.68 | 25 | 26.74 | 18 | 36.44 | 18 | 47.85 | 40 | 18.91 | 9 |
| 15 | 8.64 | 16 | 39.43 | 25 | 26.56 | 20 | 36.26 | 18 | 47.45 | 43 | 18.82 | 9 |
| 16 | 8.48 | 17 | 39.18 | 26 | 26.36 | 21 | 36.08 | 19 | 47.02 | 45 | 18.73 | 9 |
| 17 | 8.31 | 18 | 38.92 | 28 | 26.15 | 21 | 35.89 | 21 | 46.57 | 46 | 18.64 | 10 |
| 18 | 8.13 | 18 | 38.64 | 30 | 25.94 | 22 | 35.68 | 23 | 46.11 | 49 | 18.54 | 12 |
| 19 | 7.95 | 15 | 38.34 | 32 | 25.72 | 22 | 35.45 | 24 | 45.62 | 49 | 18.42 | 14 |
| 20 | 7.80 | 12 | 38.02 | 33 | 25.50 | 21 | 35.21 | 27 | 45.13 | 49 | 18.28 | 16 |
| 21 | 7.68 | 8 | 37.69 | 34 | 25.29 | 19 | 34.94 | 29 | 44.64 | 48 | 18.12 | 18 |
| 22 | 7.60 | 4 | 37.35 | 35 | 25.10 | 17 | 34.65 | 28 | 44.16 | 46 | 17.94 | 20 |
| 23 | 7.56 | | 37.00 | | 24.93 | | 34.37 | | 43.70 | | 17.74 | |
| O. K. | $+0^s.55 \cos\varphi$ | | | | $+0^s.32 \cos\varphi$ | | | | $+0^s.52 \cos\varphi$ | | | |
| U. K. | $-0.55 \cos\varphi$ | | | | $-0.32 \cos\varphi$ | | | | $-0.52 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | Octantis 20 G. 7m. | | | | Octantis 26 G. 6m–7m. | | | | χ Octantis. 6m. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | $14^h\ 43^m$ | | $-87°\ 47'$ | | $16^h\ 27^m$ | | $-86°\ 12'$ | | $18^h\ 2^m$ | | $-87°\ 40'$ | |
| Okt. 23 | 7.56 | 2 | 37.00 | 33 | 24.93 | 15 | 34.37 | 29 | 43.70 | 42 | 17.74 | 21 |
| 24 | 7.54 | 1 | 36.67 | 32 | 24.78 | 13 | 34.08 | 28 | 43.28 | 38 | 17.53 | 20 |
| 25 | 7.55 | 3 | 36.35 | 30 | 24.65 | 12 | 33.80 | 27 | 42.90 | 37 | 17.33 | 20 |
| 26 | 7.58 | 1 | 36.05 | 29 | 24.53 | 12 | 33.53 | 26 | 42.53 | 35 | 17.13 | 19 |
| 27 | 7.59 | 0 | 35.76 | 27 | 24.41 | 12 | 33.27 | 25 | 42.18 | 35 | 16.94 | 17 |
| 28 | 7.59 | 2 | 35.49 | 28 | 24.29 | 12 | 33.02 | 24 | 41.83 | 35 | 16.77 | 17 |
| 29 | 7.57 | 2 | 35.21 | 28 | 24.17 | 14 | 32.78 | 23 | 41.48 | 37 | 16.60 | 15 |
| 30 | 7.55 | 4 | 34.93 | 29 | 24.03 | 15 | 32.55 | 25 | 41.11 | 39 | 16.45 | 16 |
| 31 | 7.51 | 3 | 34.64 | 30 | 23.88 | 16 | 32.30 | 26 | 40.72 | 40 | 16.29 | 17 |
| Nov. 1 | 7.48 | 3 | 34.34 | 32 | 23.72 | 15 | 32.04 | 27 | 40.32 | 42 | 16.12 | 19 |
| 2 | 7.45 | 0 | 34.02 | 34 | 23.57 | 13 | 31.77 | 30 | 39.90 | 41 | 15.93 | 21 |
| 3 | 7.45 | 4 | 33.68 | 34 | 23.44 | 12 | 31.47 | 31 | 39.49 | 40 | 15.72 | 24 |
| 4 | 7.49 | 9 | 33.34 | 34 | 23.32 | 10 | 31.16 | 33 | 39.09 | 38 | 15.48 | 26 |
| 5 | 7.58 | 13 | 33.00 | 34 | 23.22 | 8 | 30.83 | 33 | 38.71 | 34 | 15.22 | 27 |
| 6 | 7.71 | 16 | 32.66 | 32 | 23.14 | 6 | 30.50 | 32 | 38.37 | 30 | 14.95 | 27 |
| | 7.87 | 18 | 32.34 | 30 | | | | | | | | |
| 7 | 8.05 | 19 | 32.04 | 29 | 23.08 | 3 | 30.18 | 32 | 38.07 | 27 | 14.68 | 27 |
| 8 | 8.24 | 19 | 31.75 | 27 | 23.05 | 3 | 29.86 | 30 | 37.80 | 25 | 14.41 | 26 |
| 9 | 8.43 | 16 | 31.48 | 26 | 23.02 | 2 | 29.56 | 29 | 37.55 | 23 | 14.15 | 24 |
| 10 | 8.59 | 14 | 31.22 | 26 | 23.00 | 2 | 29.27 | 27 | 37.32 | 22 | 13.91 | 23 |
| 11 | 8.73 | 13 | 30.96 | 26 | 22.98 | 4 | 29.00 | 25 | 37.10 | 24 | 13.68 | 22 |
| 12 | 8.86 | 11 | 30.70 | 27 | 22.94 | 4 | 28.75 | 26 | 36.86 | 25 | 13.46 | 22 |
| 13 | 8.97 | 13 | 30.43 | 29 | 22.90 | 6 | 28.49 | 28 | 36.61 | 27 | 13.24 | 23 |
| 14 | 9.10 | 14 | 30.14 | 30 | 22.84 | 7 | 28.21 | 28 | 36.34 | 30 | 13.01 | 24 |
| 15 | 9.24 | 18 | 29.84 | 32 | 22.77 | 5 | 27.93 | 30 | 36.04 | 31 | 12.77 | 25 |
| 16 | 9.42 | 21 | 29.52 | 33 | 22.72 | 4 | 27.63 | 32 | 35.73 | 29 | 12.52 | 28 |
| 17 | 9.63 | 24 | 29.19 | 33 | 22.68 | 3 | 27.31 | 34 | 35.44 | 27 | 12.24 | 30 |
| 18 | 9.87 | 27 | 28.86 | 31 | 22.65 | 1 | 26.97 | 35 | 35.17 | 25 | 11.94 | 31 |
| 19 | 10.14 | 31 | 28.55 | 30 | 22.64 | 1 | 26.62 | 35 | 34.92 | 23 | 11.63 | 32 |
| 20 | 10.45 | 33 | 28.25 | 28 | 22.65 | 3 | 26.27 | 34 | 34.69 | 18 | 11.31 | 33 |
| 21 | 10.78 | 32 | 27.97 | 26 | 22.68 | 5 | 25.93 | 33 | 34.51 | 15 | 10.98 | 32 |
| 22 | 11.10 | 31 | 27.71 | 25 | 22.73 | 5 | 25.60 | 31 | 34.36 | 13 | 10.66 | 30 |
| 23 | 11.41 | 30 | 27.46 | 23 | 22.78 | 6 | 25.29 | 29 | 34.23 | 12 | 10.36 | 28 |
| 24 | 11.71 | 28 | 27.23 | 24 | 22.84 | 5 | 25.00 | 28 | 34.11 | 12 | 10.08 | 28 |
| 25 | 11.99 | 26 | 26.99 | 24 | 22.89 | 4 | 24.72 | 27 | 33.99 | 13 | 9.80 | 26 |
| 26 | 12.25 | 25 | 26.75 | 24 | 22.93 | 3 | 24.45 | 27 | 33.86 | 15 | 9.54 | 26 |
| 27 | 12.50 | 27 | 26.51 | 26 | 22.96 | 3 | 24.18 | 29 | 33.71 | 16 | 9.28 | 27 |
| 28 | 12.77 | | 26.25 | | 22.99 | | 23.89 | | 33.55 | | 9.01 | |
| O. K. | $+0^s.55 \cos\varphi$ | | | | $+0^s.32 \cos\varphi$ | | | | $+0^s.52 \cos\varphi$ | | | |
| U. K. | $-0.55 \cos\varphi$ | | | | $-0.32 \cos\varphi$ | | | | $-0.52 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | Octantis 20 G. 7ᵐ. AR. | | Octantis 20 G. 7ᵐ. Dekl. | | Octantis 26 G. 6ᵐ–7ᵐ. AR. | | Octantis 26 G. 6ᵐ–7ᵐ. Dekl. | | χ Octantis. 6ᵐ. AR. | | χ Octantis. 6ᵐ. Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $14^h\ 43^m$ | | $-87°\ 47'$ | | $16^h\ 27^m$ | | $-86°\ 12'$ | | $18^h\ 2^m$ | | $-87°\ 39'$ | |
| Nov. 28 | 12.77 | 30 | 26.25 | 27 | 22.99 | 2 | 23.89 | 31 | 33.55 | 17 | 69.01 | 28 |
| 29 | 13.07 | 32 | 25.98 | 28 | 23.01 | 3 | 23.58 | 31 | 33.38 | 16 | 68.73 | 30 |
| 30 | 13.39 | 35 | 25.70 | 29 | 23.04 | 5 | 23.27 | 32 | 33.22 | 16 | 68.43 | 32 |
| Dez. 1 | 13.74 | 39 | 25.41 | 27 | { 23.09 | 7 | { 22.95 | 33 | 33.06 | 14 | 68.11 | 34 |
| | | | | | { 23.16 | 9 | { 22.62 | 35 | | | | |
| 2 | 14.13 | 43 | 25.14 | 27 | 23.25 | 12 | 22.27 | 34 | 32.92 | 10 | 67.77 | 34 |
| 3 | 14.56 | 46 | 24.87 | 25 | 23.37 | 13 | 21.93 | 33 | 32.82 | 6 | 67.43 | 35 |
| 4 | 15.02 | 47 | 24.62 | 22 | 23.50 | 15 | 21.60 | 31 | 32.76 | 1 | 67.08 | 36 |
| 5 | 15.49 | 47 | 24.40 | 20 | 23.65 | 16 | 21.29 | 29 | 32.75 | — 1 | 66.72 | 34 |
| 6 | 15.96 | 45 | 24.20 | 18 | 23.81 | 16 | 21.00 | 27 | 32.76 | 4 | 66.38 | 33 |
| 7 | 16.41 | 43 | 24.02 | 18 | 23.97 | 15 | 20.73 | 27 | 32.80 | 4 | 66.05 | 31 |
| 8 | 16.84 | 40 | 23.84 | 17 | 24.12 | 14 | 20.46 | 25 | 32.84 | 3 | 65.74 | 29 |
| 9 | 17.24 | 39 | 23.67 | 18 | 24.26 | 13 | 20.21 | 25 | 32.87 | 3 | 65.45 | 28 |
| 10 | 17.63 | 39 | 23.49 | 19 | 24.39 | 12 | 19.96 | 26 | 32.90 | 1 | 65.17 | 28 |
| 11 | 18.02 | 40 | 23.30 | 21 | 24.51 | 12 | 19.70 | 28 | 32.91 | 0 | 64.89 | 29 |
| 12 | 18.42 | 42 | 23.09 | 21 | 24.63 | 13 | 19.42 | 30 | 32.91 | 2 | 64.60 | 31 |
| 13 | 18.84 | 45 | 22.88 | 22 | 24.76 | 14 | 19.12 | 31 | 32.89 | 2 | 64.29 | 31 |
| 14 | 19.29 | 48 | 22.66 | 22 | 24.90 | 16 | 18.81 | 32 | 32.87 | 1 | 63.98 | 34 |
| 15 | 19.77 | 52 | 22.44 | 22 | 25.06 | 18 | 18.49 | 32 | 32.86 | — 2 | 63.64 | 36 |
| 16 | 20.29 | 56 | 22.22 | 20 | 25.24 | 20 | 18.17 | 31 | 32.88 | 5 | 63.28 | 36 |
| 17 | 20.85 | 57 | 22.02 | 18 | 25.44 | 22 | 17.86 | 29 | 32.93 | 8 | 62.92 | 36 |
| 18 | 21.42 | 57 | 21.84 | 17 | 25.66 | 23 | 17.57 | 28 | 33.01 | 12 | 62.56 | 36 |
| 19 | 21.99 | 55 | 21.67 | 14 | 25.89 | 23 | 17.29 | 25 | 33.13 | 15 | 62.20 | 34 |
| 20 | 22.54 | 53 | 21.53 | 13 | 26.12 | 23 | 17.04 | 24 | 33.28 | 16 | 61.86 | 33 |
| 21 | 23.07 | 51 | 21.40 | 11 | 26.35 | 22 | 16.80 | 22 | 33.44 | 17 | 61.53 | 31 |
| 22 | 23.58 | 49 | 21.29 | 11 | 26.57 | 21 | 16.58 | 21 | 33.61 | 16 | 61.22 | 30 |
| 23 | 24.07 | 48 | 21.18 | 13 | 26.78 | 21 | 16.37 | 22 | { 33.77 | 15 | { 60.92 | 28 |
| | | | | | | | | | { 33.92 | 13 | { 60.64 | 28 |
| 24 | 24.55 | 49 | 21.05 | 13 | 26.99 | 19 | 16.15 | 24 | 34.05 | 13 | 60.36 | 29 |
| 25 | 25.04 | 49 | 20.92 | 15 | 27.18 | 20 | 15.91 | 24 | 34.18 | 12 | 60.07 | 30 |
| 26 | 25.53 | 52 | 20.77 | 15 | 27.38 | 20 | 15.67 | 26 | 34.30 | 13 | 59.77 | 33 |
| 27 | 26.05 | 54 | 20.62 | 15 | 27.58 | 23 | 15.41 | 27 | 34.43 | 14 | 59.44 | 34 |
| 28 | 26.59 | 59 | 20.47 | 15 | 27.81 | 25 | 15.14 | 28 | 34.57 | 18 | 59.10 | 34 |
| 29 | 27.18 | 62 | 20.32 | 13 | 28.06 | 27 | 14.86 | 27 | 34.75 | 21 | 58.76 | 36 |
| 30 | 27.81 | 64 | 20.19 | 12 | 28.33 | 30 | 14.59 | 25 | 34.96 | 26 | 58.40 | 34 |
| 31 | 28.45 | 65 | 20.07 | 9 | 28.63 | 31 | 14.34 | 25 | 35.22 | 29 | 58.06 | 34 |
| 32 | 29.10 | | 19.98 | | 28.94 | | 14.09 | | 35.51 | | 57.72 | |
| O. K. | + 0ˢ.55 cos φ | | | | + 0ˢ.32 cos φ | | | | + 0ˢ.52 cos φ | | | |
| U. K. | — 0 .55 cos φ | | | | — 0 .32 cos φ | | | | — 0 .52 cos φ | | | |

## Obere Kulmination.

| 1911 | σ Octantis. 6^m. AR. | Diff. | σ Octantis. 6^m. Dekl. | Diff. | β Octantis. 4^m–5^m. AR. | Diff. | β Octantis. 4^m–5^m. Dekl. | Diff. | τ Octantis. 6^m. AR. | Diff. | τ Octantis. 6^m. Dekl. | Diff. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 19^h 16^m | | −89° 14′ | | 22^h 36^m | | −81° 51′ | | 23^h 14^m | | −87° 58′ | |
| Jan. 0 | 10.87^s | 30 | 22.11″ | 33 | 57.53^s | 9 | 19.28″ | 24 | 62.45^s | 48 | 41.57″ | 21 |
| 1 | 11.17 | 30 | 21.78 | 32 | 57.44 | 8 | 19.04 | 22 | 61.97 | 45 | 41.36 | 21 |
| 2 | 11.47 | 28 | 21.46 | 32 | 57.36 | 8 | 18.82 | 21 | 61.52 | 44 | 41.15 | 19 |
| 3 | 11.75 | 24 | 21.14 | 30 | 57.28 | 8 | 18.61 | 21 | 61.08 | 44 | 40.96 | 18 |
| 4 | 11.99 | 21 | 20.84 | 31 | 57.20 | 9 | 18.40 | 20 | 60.64 | 46 | 40.78 | 18 |
| 5 | 12.20 | 17 | 20.53 | 32 | 57.11 | 11 | 18.20 | 22 | 60.18 | 50 | 40.60 | 19 |
| 6 | 12.37 | 17 | 20.21 | 34 | 57.00 | 11 | 17.98 | 22 | 59.68 | 52 | 40.41 | 20 |
| 7 | 12.54 | 20 | 19.87 | 35 | 56.89 | 10 | 17.76 | 24 | 59.16 | 53 | 40.21 | 21 |
| 8 | 12.74 / 13.02 | 28 / 40 | 19.52 / 19.15 | 37 / 38 | 56.79 | 11 | 17.52 | 26 | 58.63 | 54 | 40.00 | 24 |
| 9 | 13.42 | 50 | 18.77 | 38 | 56.68 | 10 | 17.26 | 29 | 58.09 | 54 | 39.76 | 26 |
| 10 | 13.92 | 61 | 18.39 | 38 | 56.58 | 10 | 16.97 | 30 | 57.55 | 52 | 39.50 | 28 |
| 11 | 14.53 | 70 | 18.01 | 36 | 56.48 | 9 | 16.67 | 31 | 57.03 | 49 | 39.22 | 29 |
| 12 | 15.23 | 75 | 17.65 | 35 | 56.39 | 7 | 16.36 | 32 | 56.54 | 45 | 38.93 | 30 |
| 13 | 15.98 | 77 | 17.30 | 32 | 56.32 | 7 | 16.04 | 31 | 56.09 | 40 | 38.63 | 30 |
| 14 | 16.75 | 75 | 16.98 | 31 | 56.25 | 6 | 15.73 | 30 | 55.69 | 37 | 38.33 | 28 |
| 15 | 17.50 | 70 | 16.67 | 30 | 56.19 | 6 | 15.43 | 29 | 55.32 | 35 | 38.05 | 27 |
| 16 | 18.20 | 64 | 16.37 | 29 | 56.13 | 5 | 15.14 | 27 | 54.97 | 35 | 37.78 | 27 |
| 17 | 18.84 | 58 | 16.08 | 31 | 56.08 | 6 | 14.87 | 27 | 54.62 | 35 | 37.51 | 26 |
| 18 | 19.42 | 55 | 15.77 | 31 | 56.02 | 7 | 14.60 | 26 | 54.27 | 38 | 37.25 | 24 |
| 19 | 19.97 | 56 | 15.46 | 33 | 55.95 | 7 | 14.34 | 27 | 53.89 | 41 | 37.01 | 25 |
| 20 | 20.53 | 59 | 15.13 | 35 | 55.88 | 7 | 14.07 | 28 | 53.48 | 43 | 36.76 | 26 |
| 21 | 21.12 | 66 | 14.78 | 36 | 55.81 | 8 | 13.79 | 29 | 53.05 | 44 | 36.50 | 27 |
| 22 | 21.78 | 77 | 14.42 | 37 | 55.73 | 8 | 13.50 | 31 | 52.61 | 45 | 36.23 | 30 |
| 23 | 22.55 | 88 | 14.05 | 36 | 55.65 | 8 | 13.19 | 34 | 52.16 | 44 | 35.93 | 31 |
| 24 | 23.43 | 99 | 13.69 | 35 | 55.57 | 7 | 12.85 | 34 | 51.72 | 41 | 35.62 | 33 |
| 25 | 24.42 | 106 | 13.34 | 33 | 55.50 | 5 | 12.51 | 35 | 51.31 | 37 | 35.29 | 34 |
| 26 | 25.48 | 111 | 13.01 | 32 | 55.45 | 5 | 12.16 | 36 | 50.94 | 33 | 34.95 | 35 |
| 27 | 26.59 | 113 | 12.69 | 30 | 55.40 | 4 | 11.80 | 35 | 50.61 | 28 | 34.60 | 34 |
| 28 | 27.72 | 110 | 12.39 | 27 | 55.36 | 3 | 11.45 | 34 | 50.33 | 26 | 34.26 | 33 |
| 29 | 28.82 | 105 | 12.12 | 27 | 55.33 | 2 | 11.11 | 33 | 50.07 | 24 | 33.93 | 33 |
| 30 | 29.87 | 100 | 11.85 | 27 | 55.31 | 2 | 10.78 | 32 | 49.83 | 24 | 33.60 | 32 |
| 31 | 30.87 | 97 | 11.58 | 29 | 55.29 | 3 | 10.46 | 30 | 49.59 | 25 | 33.28 | 31 |
| Febr. 1 | 31.84 | 94 | 11.29 | 29 | 55.26 | 4 | 10.16 | 32 | 49.34 | 27 | 32.97 | 30 |
| 2 | 32.78 | 96 | 11.00 | 30 | 55.22 | 4 | 9.84 | 32 | 49.07 | 29 | 32.67 | 31 |
| 3 | 33.74 | 103 | 10.70 | 33 | 55.18 | 4 | 9.52 | 33 | 48.78 | 32 | 32.36 | 32 |
| 4 | 34.77 | 111 | 10.37 | 33 | 55.14 | 5 | 9.19 | 35 | 48.46 | 33 | 32.04 | 34 |
| 5 | 35.88 | | 10.04 | | 55.09 | | 8.84 | | 48.13 | | 31.70 | |
| O. K. | + 1^s.60 cos φ | | | | + 0^s.15 cos φ | | | | + 0^s.60 cos φ | | | |
| U. K. | — 1 .60 cos φ | | | | — 0 .15 cos φ | | | | — 0 .60 cos φ | | | |

## Obere Kulmination.

| 1911 | σ Octantis. 6ᵐ. AR. | Δ | σ Octantis. Dekl. | Δ | β Octantis. 4ᵐ–5ᵐ. AR. | Δ | β Octantis. Dekl. | Δ | τ Octantis. 6ᵐ. AR. | Δ | τ Octantis. Dekl. | Δ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $19^h\ 16^m$ | | −89° 14′ | | $22^h\ 36^m$ | | −81° 50′ | | $23^h\ 14^m$ | | −87° 58′ | |
| Febr. 5 | 35.88 | 123 | 10.04 | 34 | 55.09 | 5 | 68.84 | 36 | 48.13 | 32 | 31.70 | 36 |
| 6 | 37.11 | 132 | 9.70 | 32 | 55.04 | 4 | 68.48 | 39 | 47.81 | 30 | 31.34 | 37 |
| 7 | 38.43 | 140 | 9.38 | 32 | 55.00 | 3 | 68.09 | 40 | 47.51 | 27 | 30.97 | 39 |
| 8 | 39.83 | 148 | 9.06 | 30 | 54.97 | 2 | 67.69 | 41 | 47.24 | 23 | 30.58 | 40 |
| 9 | 41.31 | 151 | 8.76 | 28 | 54.95 | 1 | 67.28 | 40 | 47.01 | 19 | 30.18 | 40 |
| 10 | 42.82 | 148 | 8.48 | 25 | 54.94 | 0 | 66.88 | 39 | 46.82 | 15 | 29.78 | 39 |
| 11 | 44.30 | 144 | 8.23 | 24 | 54.94 | 1 | 66.49 | 36 | 46.67 | 12 | 29.39 | 37 |
| 12 | 45.74 | 137 | 7.99 | 23 | 54.95 | 0 | 66.13 | 36 | 46.55 | 11 | 29.02 | 37 |
| 13 | 47.11 | 129 | 7.76 | 23 | 54.95 | 1 | 65.77 | 34 | 46.44 | 11 | 28.65 | 35 |
| 14 | 48.40 | 124 | 7.53 | 25 | 54.96 | 1 | 65.43 | 33 | 46.33 | 13 | 28.30 | 34 |
| 15 | 49.64 | 124 | 7.28 | 25 | 54.95 | 0 | 65.10 | 33 | 46.20 | 16 | 27.96 | 34 |
| 16 | 50.88 | 125 | 7.03 | 27 | 54.95 | 1 | 64.77 | 34 | 46.04 | 18 | 27.62 | 34 |
| 17 | 52.13 | 130 | 6.76 | 28 | 54.94 | 1 | 64.43 | 35 | 45.86 | 20 | 27.28 | 35 |
| 18 | 53.43 | 138 | 6.48 | 29 | 54.93 | 2 | 64.08 | 37 | 45.66 | 20 | 26.93 | 37 |
| 19 | 54.81 | 149 | 6.19 | 29 | 54.91 | 1 | 63.71 | 38 | 45.46 | 19 | 26.56 | 38 |
| 20 | 56.30 | 158 | 5.90 | 27 | 54.90 | 1 | 63.33 | 40 | 45.27 | 17 | 26.18 | 41 |
| 21 | 57.88 | 166 | 5.63 | 26 | 54.89 | 1 | 62.93 | 41 | 45.10 | 14 | 25.77 | 41 |
| 22 | 59.54 | 172 | 5.37 | 24 | 54.90 | 1 | 62.52 | 41 | 44.96 | 10 | 25.36 | 42 |
| 23 | 61.26 | 174 | 5.13 | 22 | 54.91 | 2 | 62.11 | 41 | 44.86 | 5 | 24.94 | 41 |
| 24 | 63.00 | 171 | 4.91 | 20 | 54.93 | 3 | 61.70 | 39 | 44.81 | 1 | 24.53 | 40 |
| 25 | 64.71 | 166 | 4.71 | 19 | 54.96 | 4 | 61.31 | 38 | 44.80 | 1 | 24.13 | 39 |
| 26 | 66.37 | 160 | 4.52 | 18 | 55.00 / 55.04 | 4 / 4 | 60.93 / 60.57 | 36 / 35 | 44.81 | 2 | 23.74 | 38 |
| 27 | 67.97 | 155 | 4.34 | 18 | 55.08 | 4 | 60.22 | 34 | 44.83 | 2 | 23.36 | 36 |
| 28 | 69.52 | 151 | 4.16 | 20 | 55.12 | 2 | 59.88 | 35 | 44.85 | 0 | 23.00 | 36 |
| März 1 | 71.03 | 149 | 3.96 | 21 | 55.14 | 2 | 59.53 | 36 | 44.85 | 2 | 22.64 | 35 |
| 2 | 72.52 | 153 | 3.75 | 22 | 55.16 | 2 | 59.17 | 37 | 44.83 | 5 | 22.29 | 36 |
| 3 | 74.05 | 160 | 3.53 | 24 | 55.18 | 2 | 58.80 | 38 | 44.78 | 6 | 21.93 | 38 |
| 4 | 75.65 | 169 | 3.29 | 24 | 55.20 | 2 | 58.42 | 41 | 44.72 | 7 | 21.55 | 40 |
| 5 | 77.34 | 179 | 3.05 | 23 | 55.22 | 3 | 58.01 | 42 | 44.65 | 6 | 21.15 | 41 |
| 6 | 79.13 | 188 | 2.82 | 22 | 55.25 | 4 | 57.59 | 42 | 44.59 | 2 | 20.74 | 43 |
| 7 | 81.01 | 194 | 2.60 | 20 | 55.29 | 6 | 57.17 | 41 | 44.57 | 2 | 20.31 | 44 |
| 8 | 82.95 | 197 | 2.40 | 18 | 55.35 | 6 | 56.76 | 40 | 44.59 / 44.64 | 5 / 10 | 19.87 / 19.43 | 44 / 43 |
| 9 | 84.92 | 196 | 2.22 | 15 | 55.41 | 7 | 56.36 | 40 | 44.74 | 13 | 19.00 | 41 |
| 10 | 86.88 | 191 | 2.07 | 14 | 55.48 | 7 | 55.96 | 38 | 44.87 | 15 | 18.59 | 39 |
| 11 | 88.79 | 184 | 1.93 | 14 | 55.55 | 7 | 55.58 | 36 | 45.02 | 15 | 18.20 | 38 |
| 12 | 90.63 | | 1.79 | | 55.62 | | 55.22 | | 45.17 | | 17.82 | |
| O. K. | + 1ˢ.60 cos φ | | | | + 0ˢ.15 cos φ | | | | + 0ˢ.60 cos φ | | | |
| U. K. | − 1 .60 cos φ | | | | − 0 .15 cos φ | | | | − 0 .60 cos φ | | | |

## Obere Kulmination.

| 1911 | σ Octantis. 6ᵐ. AR. | Diff. | σ Octantis. 6ᵐ. Dekl. | Diff. | β Octantis. 4ᵐ–5ᵐ. AR. | Diff. | β Octantis. 4ᵐ–5ᵐ. Dekl. | Diff. | τ Octantis. 6ᵐ. AR. | Diff. | τ Octantis. 6ᵐ. Dekl. | Diff. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 19ʰ 17ᵐ | | −89° 13′ | | 22ʰ 36ᵐ | | −81° 50′ | | 23ʰ 14ᵐ | | −87° 58′ | |
| März 12 | 30ˢ.63 | 176 | 61″.79 | 12 | 55ˢ.62 | 7 | 55″.22 | 34 | 45ˢ.17 | 14 | 17″.82 | 37 |
| 13 | 32.39 | 170 | 61.67 | 13 | 55.69 | 6 | 54.88 | 33 | 45.31 | 12 | 17.45 | 36 |
| 14 | 34.09 | 165 | 61.54 | 13 | 55.75 | 6 | 54.55 | 33 | 45.43 | 10 | 17.09 | 35 |
| 15 | 35.74 | 163 | 61.41 | 15 | 55.81 | 5 | 54.22 | 34 | 45.53 | 7 | 16.74 | 36 |
| 16 | 37.37 | 166 | 61.26 | 16 | 55.86 | 5 | 53.88 | 36 | 45.60 | 6 | 16.38 | 37 |
| 17 | 39.03 | 172 | 61.10 | 18 | 55.91 | 5 | 53.52 | 37 | 45.66 | 7 | 16.01 | 38 |
| 18 | 40.75 | 181 | 60.92 | 17 | 55.96 | 5 | 53.15 | 39 | 45.73 | 8 | 15.63 | 40 |
| 19 | 42.56 | 190 | 60.75 | 17 | 56.01 | 6 | 52.76 | 39 | 45.81 | 11 | 15.23 | 41 |
| 20 | 44.46 | 199 | 60.58 | 15 | 56.07 | 7 | 52.37 | 40 | 45.92 | 14 | 14.82 | 42 |
| 21 | 46.45 | 203 | 60.43 | 13 | 56.14 | 9 | 51.97 | 39 | 46.06 | 19 | 14.40 | 41 |
| 22 | 48.48 | 204 | 60.30 | 11 | 56.23 | 9 | 51.58 | 38 | 46.25 | 23 | 13.99 | 41 |
| 23 | 50.52 | 203 | 60.19 | 9 | 56.32 | 9 | 51.20 | 36 | 46.48 | 26 | 13.58 | 39 |
| 24 | 52.55 | 199 | 60.10 | 7 | 56.41 | 10 | 50.84 | 35 | 46.74 | 27 | 13.19 | 37 |
| 25 | 54.54 | 191 | 60.03 | 7 | 56.51 | 11 | 50.49 | 33 | 47.01 | 28 | 12.82 | 36 |
| 26 | 56.45 | 184 | 59.96 | 6 | 56.62 | 10 | 50.16 | 32 | 47.29 | 26 | 12.46 | 35 |
| 27 | 58.29 | 178 | 59.90 | 8 | 56.72 | 9 | 49.84 | 31 | 47.55 | 23 | 12.11 | 34 |
| 28 | 60.07 | 175 | 59.82 | 8 | 56.81 | 8 | 49.53 | 32 | 47.78 | 21 | 11.77 | 35 |
| 29 | 61.82 | 176 | 59.74 | 8 | 56.89 | 8 | 49.21 | 34 | 47.99 | 19 | 11.42 | 35 |
| 30 | 63.58 | 181 | 59.66 | 10 | 56.97 | 8 | 48.87 | 34 | 48.18 | 18 | 11.07 | 36 |
| 31 | 65.39 | 187 | 59.56 | 11 | 57.05 | 8 | 48.53 | 36 | 48.36 | 19 | 10.71 | 39 |
| April 1 | 67.26 | 196 | 59.45 | 12 | 57.13 | 9 | 48.17 | 37 | 48.55 | 21 | 10.32 | 39 |
| 2 | 69.22 | 205 | 59.33 | 10 | 57.22 | 9 | 47.80 | 38 | 48.76 | 24 | 9.93 | 40 |
| 3 | 71.27 | 211 | 59.23 | 8 | 57.31 | 10 | 47.42 | 38 | 49.00 | 29 | 9.53 | 42 |
| 4 | 73.38 | 215 | 59.15 | 7 | 57.41 | 12 | 47.04 | 37 | 49.29 | 32 | 9.11 | 40 |
| 5 | 75.53 | 214 | 59.08 | 5 | 57.53 | 13 | 46.67 | 35 | 49.61 | 36 | 8.71 | 38 |
| 6 | 77.67 | 209 | 59.03 | 2 | 57.66 | 13 | 46.32 | 33 | 49.97 | 38 | 8.33 | 36 |
| 7 | 79.76 | 202 | 59.01 | 0 | 57.79 | 13 | 45.99 | 31 | 50.35 | 40 | 7.97 | 36 |
| 8 | 81.78 | 192 | 59.01 | 1 | 57.92 | 12 | 45.68 | 29 | 50.75 | 39 | 7.61 | 33 |
| 9 | 83.70 | 184 | 59.02 | 0 | 58.04 | 11 | 45.39 | 28 | 51.14 | 37 | 7.28 | 31 |
| 10 | 85.54 | 178 | 59.02 | 0 | 58.15 | 12 | 45.11 | 28 | 51.51 | 34 | 6.97 | 30 |
| 11 | 87.32 | 174 | 59.02 | 1 | 58.27 | 11 | 44.83 | 28 | 51.85 | 31 | 6.67 | 31 |
| 12 | 89.06 | 174 | 59.01 | 3 | 58.38 | 10 | 44.55 | 29 | 52.16 | 30 | 6.36 | 32 |
| 13 | 90.80 | 178 | 58.98 | 4 | 58.48 | 10 | 44.26 | 29 | 52.46 | 29 | 6.04 | 33 |
| 14 | 92.58 | 184 | 58.94 | 5 | 58.58 | 11 | 43.97 | 31 | 52.75 | 30 | 5.71 | 34 |
| 15 | 94.42 | 192 | 58.89 | 4 | 58.69 | 12 | 43.66 | 33 | 53.05 | 32 | 5.37 | 35 |
| 16 | 96.34 | 200 | 58.85 | 3 | 58.81 | 12 | 43.33 | 33 | 53.37 | 36 | 5.02 | 36 |
| 17 | 98.34 | 205 | 58.82 | 0 | 58.93 | 13 | 43.00 | 32 | 53.73 | 40 | 4.66 | 36 |
| 18 | 100.39 | | 58.82 | | 59.06 | | 42.68 | | 54.13 | | 4.30 | |
| O. K. | + 1ˢ.59 cos φ | | | | + 0ˢ.15 cos φ | | | | + 0ˢ.60 cos φ | | | |
| U. K. | — 1 .59 cos φ | | | | — 0 .15 cos φ | | | | — 0 .60 cos φ | | | |

## Obere Kulmination.

| 1911 | σ Octantis. 6m. AR. | | σ Octantis. 6m. Dekl. | | β Octantis. 4m–5m. AR. | | β Octantis. 4m–5m. Dekl. | | τ Octantis. 6m. AR. | | τ Octantis. 6m. Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $19^h\ 18^m$ | | $-89°\ 13'$ | | $22^h\ 36^m$ | | $-81°\ 50'$ | | $23^h\ 14^m$ | | $-87°\ 57'$ | |
| April 18 | $40^s.39$ | 207 | $58''.82$ | 1 | $59^s.06$ | 14 | $42''.68$ | 31 | $54^s.13$ | 44 | $64''.30$ | 34 |
| 19 | 42.46 | 206 | 58.83 | 4 | 59.20 | 15 | 42.37 | 30 | 54.57 | 47 | 63.96 | 33 |
| 20 | 44.52 | 201 | 58.87 | 5 | 59.35 | 15 | 42.07 | 28 | 55.04 | 48 | 63.63 | 32 |
| 21 | 46.53 | 193 | 58.92 | 7 | 59.50 | 14 | 41.79 | 25 | 55.52 | 49 | 63.31 | 30 |
| 22 | 48.46 | 185 | 58.99 | 7 | 59.64 | 14 | 41.54 | 24 | 56.01 | 48 | 63.01 | 28 |
| 23 | 50.31 | 178 | 59.06 | 7 | 59.78 | 14 | 41.30 | 23 | 56.49 | 46 | 62.73 | 28 |
| 24 | 52.09 | 172 | 59.13 | 5 | 59.92 | 14 | 41.07 | 24 | 56.95 | 43 | 62.45 | 26 |
| 25 | 53.81 | 171 | 59.18 | 5 | 60.06 | 13 | 40.83 | 24 | 57.38 | 41 | 62.19 | 28 |
| 26 | 55.52 | 172 | 59.23 | 3 | 60.19 | 12 | 40.59 | 25 | 57.79 | 39 | 61.91 | 28 |
| 27 | 57.24 | 176 | 59.26 | 3 | 60.31 | 12 | 40.34 | 26 | 58.18 | 39 | 61.63 | 29 |
| 28 | 59.00 | 184 | 59.29 | 2 | 60.43 | 13 | 40.08 | 28 | 58.57 | 40 | 61.34 | 31 |
| 29 | 60.84 | 192 | 59.31 | 3 | 60.56 | 14 | 39.80 | 28 | 58.97 | 43 | 61.03 | 32 |
| 30 | 62.76 | 199 | 59.34 | 4 | 60.70 | 15 | 39.52 | 28 | 59.40 | 47 | 60.71 | 32 |
| Mai 1 | 64.75 | 202 | 59.38 | 5 | 60.85 | 16 | 39.24 | 28 | 59.87 | 51 | 60.39 | 32 |
| 2 | 66.77 | 202 | 59.43 | 8 | 61.01 | 16 | 38.96 | 27 | 60.38 | 54 | 60.07 | 30 |
| 3 | 68.79 | 198 | 59.51 | 11 | 61.17 | 17 | 38.69 | 24 | 60.92 | 57 | 59.77 | 29 |
| 4 | 70.77 | 192 | 59.62 | 13 | 61.34 | 17 | 38.45 | 22 | 61.49 | 57 | 59.48 | 26 |
| 5 | 72.69 | 182 | 59.75 | 13 | 61.51 | 16 | 38.23 | 20 | 62.06 | 57 | 59.22 | 25 |
| 6 | 74.51 | 171 | 59.88 | 13 | 61.67 | 16 | 38.03 | 18 | 62.63 | 56 | 58.97 | 22 |
| 7 | 76.22 | 162 | 60.01 | 13 | 61.83 | 15 | 37.85 | 17 | 63.19 | 53 | 58.75 | 21 |
| 8 | 77.84 | 157 | 60.14 | 12 | 61.98 | 15 | 37.68 | 18 | 63.72 | 50 | 58.54 | 20 |
| 9 | 79.41 | 154 | 60.26 | 10 | 62.13 | 14 | 37.50 | 17 | 64.22 | 48 | 58.34 | 22 |
| 10 | 80.95 | 155 | 60.36 | 10 | 62.27 | 14 | 37.33 | 19 | 64.70 | 46 | 58.12 | 22 |
| 11 | 82.50 | 160 | 60.46 | 9 | 62.41 | 14 | 37.14 | 20 | 65.16 | 47 | 57.90 | 23 |
| 12 | 84.10 | 167 | 60.55 | 9 | 62.55 | 15 | 36.94 | 21 | 65.63 | 49 | 57.67 | 24 |
| 13 | 85.77 | 174 | 60.64 | 9 | 62.70 | 15 | 36.73 | 21 | 66.12 | 50 | 57.43 | 25 |
| 14 | 87.51 | 179 | 60.73 | 11 | 62.85 | 16 | 36.52 | 21 | 66.62 | 54 | 57.18 | 24 |
| 15 | 89.30 | 180 | 60.84 | 14 | 63.01 | 17 | 36.31 | 20 | 67.16 | 59 | 56.94 | 24 |
| 16 | 91.10 | 179 | 60.98 | 16 | 63.18 | 17 | 36.11 | 18 | 67.75 | 61 | 56.70 | 23 |
| 17 | 92.89 | 175 | 61.14 | 17 | 63.35 | 18 | 35.93 | 16 | 68.36 | 63 | 56.47 | 22 |
| 18 | 94.64 | 168 | 61.31 | 18 | 63.53 | 18 | 35.77 | 14 | 68.99 | 65 | 56.25 | 19 |
| 19 | 96.32 | 159 | 61.49 | 20 | 63.71 | 18 | 35.63 | 12 | 69.64 | 64 | 56.06 | 17 |
| 20 | 97.91 | 150 | 61.69 | 20 | 63.89 | 17 | 35.51 | 12 | 70.28 | 61 | 55.89 | 16 |
| 21 | 99.41 | 142 | 61.89 | 18 | 64.06 | 16 | 35.39 | 11 | 70.89 | 58 | 55.73 | 15 |
| 22 | 100.83 | 137 | 62.07 | 17 | 64.22 | 16 | 35.28 | 12 | 71.47 | 55 | 55.58 | 15 |
| 23 | 102.20 | 137 | 62.24 | 16 | 64.38 | 15 | 35.16 | 12 | 72.02 | 52 | 55.43 | 16 |
| 24 | 103.57 | 141 | 62.40 | 15 | 64.53 | 15 | 35.04 | 13 | 72.54 | 52 | 55.27 | 16 |
| 25 | 104.98 | | 62.55 | | 64.68 | | 34.91 | | 73.06 | | 55.11 | |
| O. K. | $+1^s.59 \cos\varphi$ | | | | $+0^s.15 \cos\varphi$ | | | | $+0^s.60 \cos\varphi$ | | | |
| U. K. | $-1\ .59 \cos\varphi$ | | | | $-0\ .15 \cos\varphi$ | | | | $-0\ .60 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | σ Octantis. 6ᵐ. AR. | | σ Octantis. 6ᵐ. Dekl. | | β Octantis. 4ᵐ–5ᵐ. AR. | | β Octantis. 4ᵐ–5ᵐ. Dekl. | | τ Octantis. 6ᵐ. AR. | | τ Octantis. 6ᵐ. Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $19^h\ 19^m$ | | $-89°\ 14'$ | | $22^h\ 37^m$ | | $-81°\ 50'$ | | $23^h\ 15^m$ | | $-87°\ 57'$ | |
| | s | | " | | s | | " | | s | | " | |
| Mai 25 | 44.98 | 146 | 2.55 | 14 | 4.68 | 16 | 34.91 | 15 | 13.06 | 52 | 55.11 | 18 |
| 26 | 46.44 | 152 | 2.69 | 15 | 4.84 | 16 | 34.76 | 15 | 13.58 | 55 | 54.93 | 19 |
| 27 | 47.96 | 159 | 2.84 | 16 | 5.00 | 16 | 34.61 | 15 | 14.13 | 57 | 54.74 | 19 |
| 28 | 49.55 | 163 | 3.00 | 17 | 5.16 | 16 | 34.46 | 15 | 14.70 | 60 | 54.55 | 19 |
| 29 | 51.18 | 165 | 3.17 | 19 | 5.32 | 18 | 34.31 | 14 | 15.30 | 64 | 54.36 | 18 |
| 30 | 52.83 | 161 | 3.36 | 21 | 5.50 | 19 | 34.17 | 12 | 15.94 | 67 | 54.18 | 16 |
| 31 | 54.44 | 152 | 3.57 | 23 | 5.69 | 18 | 34.05 | 9 | 16.61 | 69 | 54.02 | 14 |
| Juni 1 | 55.96 | 143 | 3.80 | 25 | 5.87 | 19 | 33.96 | 7 | 17.30 | 68 | 53.88 | 12 |
| 2 | 57.39 | 133 | 4.05 | 25 | 6.06 | 18 | 33.89 | 5 | 17.98 | 67 | 53.76 | 10 |
| 3 | 58.72 | 122 | 4.30 | 25 | 6.24 | 17 | 33.84 | 5 | 18.65 | 64 | 53.66 | 8 |
| 4 | 59.94 | 113 | 4.55 | 24 | 6.41 | 16 | 33.79 | 3 | 19.29 | 61 | 53.58 | 8 |
| 5 | 61.07 | 109 | 4.79 | 22 | 6.57 | 16 | 33.76 | 4 | 19.90 | 58 | 53.50 | 7 |
| 6 | 62.16 | 108 | 5.01 | 20 | 6.73 | 15 | 33.72 | 5 | 20.48 | 56 | 53.43 | 8 |
| 7 | 63.24 | 110 | 5.21 | 20 | 6.88 | 15 | 33.67 | 5 | 21.04 | 54 | 53.35 | 9 |
| 8 | 64.34 | 115 | 5.41 | 19 | 7.03 | 15 | 33.62 | 6 | 21.58 | 55 | 53.26 | 9 |
| 9 | 65.49 | 122 | 5.60 | 20 | 7.18 | 16 | 33.56 | 7 | 22.13 | 58 | 53.17 | 11 |
| 10 | 66.71 | 127 | 5.80 | 21 | 7.34 | 17 | 33.49 | 7 | 22.71 | 60 | 53.06 | 11 |
| 11 | 67.98 | 128 | 6.01 | 23 | 7.51 | 17 | 33.42 | 6 | 23.31 | 63 | 52.95 | 10 |
| 12 | 69.26 | 128 | 6.24 | 24 | 7.68 | 18 | 33.36 | 4 | 23.94 | 67 | 52.85 | 10 |
| 13 | 70.54 | 124 | 6.48 | 27 | 7.86 | 18 | 33.32 | 3 | 24.61 | 69 | 52.75 | 7 |
| 14 | 71.78 | 117 | 6.75 | 29 | 8.04 | 19 | 33.29 | 1 | 25.30 | 70 | 52.68 | 5 |
| 15 | 72.95 | 108 | 7.04 | 30 | 8.23 | 18 | 33.28 | 1 | 26.00 | 69 | 52.63 | 4 |
| 16 | 74.03 | 97 | 7.34 | 29 | 8.41 | 17 | 33.29 | 3 | 26.69 | 68 | 52.59 | 1 |
| 17 | 75.00 | 89 | 7.63 | 28 | 8.58 | 17 | 33.32 | 3 | 27.37 | 64 | 52.58 | 0 |
| 18 | 75.89 | 82 | 7.91 | 27 | 8.75 | 16 | 33.35 | 5 | 28.01 | 61 | 52.58 | 0 |
| 19 | 76.71 | 79 | 8.18 | 26 | 8.91 | 15 | 33.40 | 3 | 28.62 | 57 | 52.58 | 0 |
| 20 | 77.50 | 80 | 8.44 | 25 | 9.06 | 15 | 33.43 | 2 | 29.19 | 55 | 52.58 | 1 |
| 21 | 78.30 | 84 | 8.69 | 24 | 9.21 | 14 | 33.45 | 0 | 29.74 | 55 | 52.57 | 3 |
| 22 | 79.14 | 90 | 8.93 | 23 | 9.35 | 15 | 33.45 | 0 | 30.29 | 55 | 52.54 | 4 |
| 23 | 80.04 | 95 | 9.16 | 24 | 9.50 | 16 | 33.45 | 0 | 30.84 | 58 | 52.50 | 4 |
| 24 | 80.99 | 98 | 9.40 | 25 | 9.66 | 16 | 33.45 | 1 | 31.42 | 61 | 52.46 | 4 |
| 25 | 81.97 | 101 | 9.65 | 27 | 9.82 | 17 | 33.44 | 1 | 32.03 | 64 | 52.42 | 4 |
| 26 | 82.98 | 100 | 9.92 | 29 | 9.99 | 18 | 33.45 | 2 | 32.67 | 67 | 52.38 | 2 |
| 27 | 83.98 | 93 | 10.21 | 30 | 10.17 | 17 | 33.47 | 4 | 33.34 | 69 | 52.36 | 0 |
| 28 | 84.91 | 83 | 10.51 | 32 | 10.34 | 18 | 33.51 | 7 | 34.03 | 69 | 52.36 | 2 |
| 29 | 85.74 | 72 | 10.83 | 32 | 10.52 | 17 | 33.58 | 9 | 34.72 | 67 | 52.38 | 5 |
| 30 | 86.46 | 60 | 11.15 | 33 | 10.69 | 16 | 33.67 | 11 | 35.39 | 65 | 52.43 | 6 |
| Juli 1 | 87.06 | | 11.48 | | 10.85 | | 33.78 | | 36.04 | | 52.49 | |
| O. K. | + 1ˢ.60 cos φ | | | | + 0ˢ.15 cos φ | | | | + 0ˢ.60 cos φ | | | |
| U. K. | — 1 .60 cos φ | | | | — 0 .15 cos φ | | | | — 0 .60 cos φ | | | |

## Obere Kulmination.

| 1911 | | σ Octantis. 6^m. AR. | Δ | σ Octantis. 6^m. Dekl. | Δ | β Octantis. 4^m–5^m. AR. | Δ | β Octantis. 4^m–5^m. Dekl. | Δ | τ Octantis. 6^m. AR. | Δ | τ Octantis. 6^m. Dekl. | Δ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | $19^h 20^m$ | | $-89° 14'$ | | $22^h 37^m$ | | $-81° 50'$ | | $23^h 15^m$ | | $-87° 57'$ | |
| Juli | 1 | 27.06 | 51 | 11.48 | 31 | 10.85 | 15 | 33.78 | 11 | 36.04 | 61 | 52.49 | 7 |
| | 2 | 27.57 | 44 | 11.79 | 30 | 11.00 | 14 | 33.89 | 11 | 36.65 | 57 | 52.56 | 8 |
| | 3 | 28.01 | 40 | 12.09 | 29 | 11.14 | 14 | 34.00 | 11 | 37.22 | 54 | 52.64 | 8 |
| | 4 | 28.41 | 41 | 12.38 | 27 | 11.28 | 13 | 34.11 | 10 | 37.76 | 53 | 52.72 | 7 |
| | 5 | 28.82 | 44 | 12.65 | 26 | 11.41 | 13 | 34.21 | 8 | 38.29 | 51 | 52.79 | 6 |
| | 6 | 29.26 | 49 | 12.91 | 26 | 11.54 | 14 | 34.29 | 7 | 38.80 | 53 | 52.85 | 5 |
| | 7 | 29.75 | 54 | 13.17 | 27 | 11.68 | 14 | 34.36 | 8 | 39.33 | 55 | 52.90 | 4 |
| | 8 | 30.29 | 57 | 13.44 | 28 | 11.82 | 14 | 34.44 | 8 | 39.88 | 57 | 52.94 | 5 |
| | 9 | 30.86 | 58 | 13.72 | 30 | 11.96 | 15 | 34.52 | 10 | 40.45 | 61 | 52.99 | 6 |
| | 10 | 31.44 | 54 | 14.02 | 31 | 12.11 | 16 | 34.62 | 12 | 41.06 | 63 | 53.05 | 7 |
| | 11 | 31.98 | 48 | 14.33 | 34 | 12.27 | 16 | 34.74 | 13 | 41.69 | 64 | 53.12 | 9 |
| | 12 | 32.46 | 38 | 14.67 | 35 | 12.43 | 15 | 34.87 | 15 | 42.33 | 64 | 53.21 | 11 |
| | 13 | 32.84 | 28 | 15.02 | 34 | 12.58 | 15 | 35.02 | 16 | 42.97 | 61 | 53.32 | 13 |
| | 14 | 33.12 | 18 | 15.36 | 33 | 12.73 | 14 | 35.18 | 18 | 43.58 | 58 | 53.45 | 14 |
| | 15 | 33.30 | 9 | 15.69 | 33 | 12.87 | 13 | 35.36 | 18 | 44.16 | 55 | 53.59 | 15 |
| | 16 | 33.39 | 4 | 16.02 | 30 | 13.00 | 12 | 35.54 | 18 | 44.71 | 51 | 53.74 | 15 |
| | 17 | 33.43 | 4 | 16.32 | 28 | 13.12 | 11 | 35.72 | 16 | 45.22 | 48 | 53.89 | 15 |
| | 18 | 33.47 | 6 | 16.60 | 28 | 13.23 | 12 | 35.88 | 15 | 45.70 | 47 | 54.04 | 13 |
| | 19 | 33.53 | 11 | 16.88 | 27 | 13.35 | 11 | 36.03 | 14 | 46.17 | 46 | 54.17 | 12 |
| | 20 | 33.64 | 17 | 17.15 | 27 | 13.46 | 12 | 36.17 | 13 | 46.63 | 47 | 54.29 | 11 |
| | 21 | 33.81 | 22 | 17.42 | 28 | 13.58 | 12 | 36.30 | 13 | 47.10 | 50 | 54.40 | 10 |
| | 22 | 34.03 | 24 | 17.70 | 28 | 13.70 | 13 | 36.43 | 14 | 47.60 | 52 | 54.50 | 11 |
| | 23 | 34.27 | 22 | 17.98 | 31 | 13.83 | 13 | 36.57 | 15 | 48.12 | 55 | 54.61 | 12 |
| | 24 | 34.49 | 18 | 18.29 | 33 | 13.96 | 14 | 36.72 | 17 | 48.67 | 57 | 54.73 | 14 |
| | 25 | 34.67 | 9 | 18.62 | 34 | 14.10 | 13 | 36.89 | 19 | 49.24 | 58 | 54.87 | 16 |
| | 26 | 34.76 | −2 | 18.96 | 35 | 14.23 | 13 | 37.08 | 22 | 49.82 | 55 | 55.03 | 18 |
| | 27 | 34.74 | 14 | 19.31 | 34 | 14.36 | 12 | 37.30 | 23 | 50.37 | 52 | 55.21 | 20 |
| | 28 | 34.60 | 25 | 19.65 | 33 | 14.48 | 11 | 37.53 | 24 | 50.89 | 49 | 55.41 | 21 |
| | 29 | 34.35 | 33 | 19.98 | 32 | 14.59 | 10 | 37.77 | 23 | 51.38 | 46 | 55.62 | 22 |
| | 30 | 34.02 | 38 | 20.30 | 30 | 14.69 | 10 | 38.00 | 24 | 51.84 | 41 | 55.84 | 22 |
| | 31 | 33.64 | 40 | 20.60 | 28 | 14.79 | 9 | 38.24 | 23 | 52.25 | 38 | 56.06 | 21 |
| Aug. | 1 | 33.24 | 37 | 20.88 | 27 | 14.88 | 8 | 38.47 | 22 | 52.63 | 37 | 56.27 | 20 |
| | 2 | 32.87 | 32 | 21.15 | 26 | 14.96 | 8 | 38.69 | 20 | 53.00 | 37 | 56.47 | 19 |
| | 3 | 32.55 | 27 | 21.41 | 27 | 15.04 | 9 | 38.89 | 20 | 53.37 | 38 | 56.66 | 19 |
| | 4 | 32.28 | 23 | 21.68 | 27 | 15.13 | 9 | 39.09 | 20 | 53.75 | 40 | 56.85 | 18 |
| | 5 | 32.05 | 22 | 21.95 | 28 | 15.22 | 10 | 39.29 | 21 | 54.15 | 43 | 57.03 | 18 |
| | 6 | 31.83 | 23 | 22.23 | 30 | 15.32 | 10 | 39.50 | 21 | 54.58 | 46 | 57.21 | 20 |
| | 7 | 31.60 | | 22.53 | | 15.42 | | 39.71 | | 55.04 | | 57.41 | |
| O. K. | | $+ 1^s.60 \cos\varphi$ | | | | $+ 0^s.15 \cos\varphi$ | | | | $+ 0^s.60 \cos\varphi$ | | | |
| U. K. | | $- 1.60 \cos\varphi$ | | | | $- 0.15 \cos\varphi$ | | | | $- 0.60 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | σ Octantis. 6$^m$. | | | | β Octantis. 4$^m$–5$^m$. | | | | τ Octantis. 6$^m$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. | | AR. | | Dekl. | | AR. | | Dekl. | |
| | $19^h\ 19^m$ | | $-89°\ 14'$ | | $22^h\ 37^m$ | | $-81°\ 50'$ | | $23^h\ 15^m$ | | $-87°\ 57'$ | |
| Aug. 7 | $91^s.60$ | 29 | 22″.53 | 32 | $15^s.42$ | 10 | 39″.71 | 24 | $55^s.04$ | 47 | 57″.41 | 21 |
| 8 | 91.31 | 38 | 22.85 | 32 | 15.52 | 10 | 39.95 | 26 | 55.51 | 45 | 57.62 | 24 |
| 9 | 90.93 | 48 | 23.17 | 33 | 15.62 | 10 | 40.21 | 27 | 55.96 | 44 | 57.86 | 25 |
| 10 | 90.45 | 59 | 23.50 | 33 | 15.72 | 9 | 40.48 | 28 | 56.40 | 41 | 58.11 | 26 |
| 11 | 89.86 | 68 | 23.83 | 31 | 15.81 | 8 | 40.76 | 29 | 56.81 | 37 | 58.37 | 28 |
| 12 | 89.18 | 73 | 24.14 | 29 | 15.89 | 6 | 41.05 | 29 | 57.18 | 33 | 58.65 | 27 |
| 13 | 88.45 | 75 | 24.43 | 27 | 15.95 | 5 | 41.34 | 28 | 57.51 | 29 | 58.92 | 26 |
| 14 | 87.70 | 74 | 24.70 | 25 | 16.00 | 5 | 41.62 | 26 | 57.80 | 27 | 59.18 | 26 |
| 15 | 86.96 | 71 | 24.95 | 23 | 16.05 | 5 | 41.88 | 24 | 58.07 | 25 | 59.44 | 24 |
| 16 | 86.25 | 65 | 25.18 | 23 | 16.10 | 5 | 42.12 | 24 | 58.32 | 25 | 59.68 | 22 |
| 17 | 85.60 | 59 | 25.41 | 23 | 16.15 | 6 | 42.36 | 23 | 58.57 | 27 | 59.90 | 22 |
| 18 | 85.01 | 54 | 25.64 | 25 | 16.21 | 6 | 42.59 | 22 | 58.84 | 30 | 60.12 | 22 |
| 19 | 84.47 | 54 | 25.89 | 25 | 16.27 | 6 | 42.81 | 24 | 59.14 | 32 | 60.34 | 22 |
| 20 | 83.93 | 57 | 26.14 | 27 | 16.33 | 7 | 43.05 | 26 | 59.46 | 33 | 60.56 | 24 |
| 21 | 83.36 | 64 | 26.41 | 29 | 16.40 | 7 | 43.31 | 27 | 59.79 | 34 | 60.80 | 26 |
| 22 | 82.72 | 74 | 26.70 | 28 | 16.47 | 7 | 43.58 | 30 | 60.13 | 33 | 61.06 | 27 |
| 23 | 81.98 | 85 | 26.98 | 29 | 16.54 | 5 | 43.88 | 30 | 60.46 | 30 | 61.33 | 30 |
| 24 | 81.13 | 97 | 27.27 | 28 | 16.59 | 4 | 44.18 | 31 | 60.76 | 27 | 61.63 | 31 |
| 25 | 80.16 | 105 | 27.55 | 27 | 16.63 | 4 | 44.49 | 32 | 61.03 | 23 | 61.94 | 32 |
| 26 | 79.11 | 111 | 27.82 | 25 | 16.67 | 3 | 44.81 | 32 | 61.26 | 18 | 62.26 | 31 |
| 27 | 78.00 | 114 | 28.07 | 22 | 16.70 | 2 | 45.13 | 30 | 61.44 | 14 | 62.57 | 30 |
| 28 | 76.86 | 113 | 28.29 | 20 | 16.72 | 1 | 45.43 | 29 | 61.58 | 12 | 62.87 | 30 |
| 29 | 75.73 | 108 | 28.49 | 20 | 16.73 | 1 | 45.72 | 28 | 61.70 | 11 | 63.17 | 28 |
| 30 | 74.65 | 102 | 28.69 | 19 | 16.74 | 2 | 46.00 | 26 | 61.81 | 11 | 63.45 | 27 |
| 31 | 73.63 | 97 | 28.88 | 19 | 16.76 | 1 | 46.26 | 26 | 61.92 | 13 | 63.72 | 27 |
| Sept. 1 | 72.66 | 93 | 29.07 | 21 | 16.77 | 2 | 46.52 | 26 | 62.05 | 15 | 63.99 | 27 |
| 2 | 71.73 | 93 | 29.28 | 21 | 16.79 | 3 | 46.78 | 27 | 62.20 | 18 | 64.26 | 27 |
| 3 | 70.80 | 96 | 29.49 | 23 | 16.82 | 3 | 47.05 | 29 | 62.38 | 19 | 64.53 | 28 |
| 4 | 69.84 | 103 | 29.72 | 23 | 16.85 | 3 | 47.34 | 30 | 62.57 | 19 | 64.81 | 29 |
| 5 | 68.81 | 113 | 29.95 | 24 | 16.88 | 2 | 47.64 | 32 | 62.76 | 18 | 65.10 | 31 |
| 6 | 67.68 | 122 | 30.19 | 24 | 16.90 | 1 | 47.96 | 34 | 62.94 | 14 | 65.41 | 33 |
| 7 | 66.46 | 131 | 30.43 | 22 | 16.91 | 1 | 48.30 | 34 | 63.08 | 11 | 65.74 | 34 |
| 8 | 65.15 | 138 | 30.65 | 19 | 16.92 | —1 | 48.64 | 33 | 63.19 | 6 | 66.08 | 34 |
| 9 | 63.77 | 141 | 30.84 | 18 | 16.91 | 2 | 48.97 | 32 | 63.25 | 2 | 66.42 | 33 |
| 10 | 62.36 | 140 | 31.02 | 16 | 16.89 | 2 | 49.29 | 31 | 63.27 | —1 | 66.75 | 31 |
| 11 | 60.96 | 136 | 31.18 | 14 | 16.87 | 3 | 49.60 | 28 | 63.26 | 4 | 67.06 | 31 |
| 12 | 59.60 | 129 | 31.32 | 13 | 16.84 | 2 | 49.88 | 27 | 63.22 | 4 | 67.37 | 28 |
| 13 | 58.31 | | 31.45 | | 16.82 | | 50.15 | | 63.18 | | 67.65 | |
| O. K. | + $1^s.61 \cos\varphi$ | | | | + $0^s.15 \cos\varphi$ | | | | + $0^s.60 \cos\varphi$ | | | |
| U. K. | — 1 .61 $\cos\varphi$ | | | | — 0 .15 $\cos\varphi$ | | | | — 0 .60 $\cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | σ Octantis. 6<sup>m</sup>. AR. | | Dekl. | | β Octantis. 4<sup>m</sup>–5<sup>m</sup>. AR. | | Dekl. | | τ Octantis. 6<sup>m</sup>. AR. | | Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 19h 19m | | −89° 14′ | | 22h 37m | | −81° 50′ | | 23h 15m | | −87° 58′ | |
| Sept. 13 | 58.31 | 122 | 31.45 | 12 | 16.82 | 3 | 50.15 | 26 | 63.18 | 3 | 7.65 | 27 |
| 14 | 57.09 | 116 | 31.57 | 13 | 16.79 | 2 | 50.41 | 26 | 63.15 | 1 | 7.92 | 26 |
| 15 | 55.93 | 113 | 31.70 | 14 | 16.77 | 1 | 50.67 | 25 | 63.14 | 1 | 8.18 | 27 |
| 16 | 54.80 | 114 | 31.84 | 15 | 16.76 | 1 | 50.92 | 27 | 63.15 | 3 | 8.45 | 27 |
| 17 | 53.66 | 118 | 31.99 | 16 | 16.75 | 1 | 51.19 | 28 | 63.18 | 4 | 8.72 | 28 |
| 18 | 52.48 | 125 | 32.15 | 16 | 16.74 | 1 | 51.47 | 29 | 63.22 | 4 | 9.00 | 31 |
| 19 | 51.23 | 135 | 32.31 | 17 | 16.73 | 2 | 51.76 | 31 | 63.26 | 2 | 9.31 | 32 |
| 20 | 49.88 | 146 | 32.48 | 16 | 16.71 | 2 | 52.07 | 32 | 63.28 | 2 | 9.63 | 34 |
| 21 | 48.42 | 154 | 32.64 | 15 | 16.69 | 4 | 52.39 | 33 | 63.26 | 6 | 9.97 | 33 |
| 22 | 46.88 | 160 | 32.79 | 12 | 16.65 | 5 | 52.72 | 32 | 63.20 | 12 | 10.30 | 34 |
| 23 | 45.28 | 162 | 32.91 | 10 | 16.60 | 5 | 53.04 | 30 | 63.08 | 15 | 10.64 | 32 |
| 24 | 43.66 | 162 | 33.01 | 8 | 16.55 | 7 | 53.34 | 29 | 62.93 | 18 | 10.96 | 32 |
| 25 | 42.04 | 157 | 33.09 | 6 | 16.48 | 7 | 53.63 | 27 | 62.75 | 20 | 11.28 | 30 |
| 26 | 40.47 | 150 | 33.15 | 6 | 16.41 | 6 | 53.90 | 26 | 62.55 | 20 | 11.58 | 28 |
| 27 | 38.97 | 143 | 33.21 | 4 | 16.35 | 6 | 54.16 | 25 | 62.35 | 18 | 11.86 | 27 |
| 28 | 37.54 | 137 | 33.25 | 6 | 16.29 | 6 | 54.41 | 24 | 62.17 | 17 | 12.13 | 26 |
| 29 | 36.17 | 135 | 33.31 | 6 | 16.23 | 5 | 54.65 | 25 | 62.00 | 14 | 12.39 | 27 |
| 30 | 34.82 | 136 | 33.37 | 8 | 16.18 | 5 | 54.90 | 25 | 61.86 | 13 | 12.66 | 27 |
| Okt. 1 | 33.46 | 139 | 33.45 | 9 | 16.13 | 4 | 55.15 | 27 | 61.73 | 12 | 12.93 | 29 |
| 2 | 32.07 | 146 | 33.54 | 10 | 16.09 | 5 | 55.42 | 28 | 61.61 | 12 | 13.22 | 30 |
| 3 | 30.61 | 155 | 33.64 | 8 | 16.04 | 6 | 55.70 | 29 | 61.49 | 15 | 13.52 | 30 |
| 4 | 29.06 | 163 | 33.72 | 8 | 15.98 | 7 | 55.99 | 30 | 61.34 | 19 | 13.82 | 32 |
| 5 | 27.43 | 169 | 33.80 | 6 | 15.91 | 8 | 56.29 | 30 | 61.15 | 23 | 14.14 | 32 |
| 6 | 25.74 | 172 | 33.86 | 4 | 15.83 | 9 | 56.59 | 28 | 60.92 | 27 | 14.46 | 32 |
| 7 | 24.02 | 171 | 33.90 | 1 | 15.74 | 9 | 56.87 | 26 | 60.65 | 31 | 14.78 | 30 |
| 8 | 22.31 | 166 | 33.91 | 1 | 15.65 | 10 | 57.13 | 25 | 60.34 | 33 | 15.08 | 27 |
| 9 | 20.65 | 159 | 33.90 | 3 | 15.55 | 10 | 57.38 | 22 | 60.01 | 35 | 15.35 | 26 |
| 10 | 19.06 | 151 | 33.87 | 3 | 15.45 | 10 | 57.60 | 21 | 59.66 | 35 | 15.61 | 24 |
| 11 | 17.55 | 143 | 33.84 | 3 | 15.35 | 9 | 57.81 | 19 | 59.31 | 32 | 15.85 | 23 |
| 12 | 16.12 | 137 | 33.81 | 3 | 15.26 | 9 | 58.00 | 19 | 58.99 | 30 | 16.08 | 22 |
| 13 | 14.75 | 134 | 33.78 | 2 | 15.17 | 8 | 58.19 | 20 | 58.69 | 27 | 16.30 | 22 |
| 14 | 13.41 | 135 | 33.76 | 0 | 15.09 | 7 | 58.39 | 20 | 58.42 | 27 | 16.52 | 23 |
| 15 | 12.06 | 139 | 33.76 | 0 | 15.02 | 8 | 58.59 | 22 | 58.15 | 25 | 16.75 | 24 |
| 16 | 10.67 | 147 | 33.76 | 0 | 14.94 | 8 | 58.81 | 23 | 57.90 | 27 | 16.99 | 26 |
| 17 | 9.20 | 155 | 33.76 | 0 | 14.86 | 9 | 59.04 | 24 | 57.63 | 30 | 17.25 | 26 |
| 18 | 7.65 | 163 | 33.76 | 2 | 14.77 | 10 | 59.28 | 25 | 57.33 | 33 | 17.51 | 27 |
| 19 | 6.02 | 170 | 33.74 | 4 | 14.67 | 10 | 59.53 | 24 | 57.00 | 37 | 17.78 | 28 |
| 20 | 4.32 | | 33.70 | | 14.57 | | 59.77 | | 56.63 | | 18.06 | |
| O. K. | + 1ˢ.61 cos φ | | | | + 0ˢ.15 cos φ | | | | + 0ˢ.60 cos φ | | | |
| U. K. | − 1 .61 cos φ | | | | − 0 .15 cos φ | | | | + 0 .60 cos φ | | | |

## Obere Kulmination.

| 1911 | σ Octantis. $6^m$. AR. | | σ Octantis. $6^m$. Dekl. | | β Octantis. $4^m-5^m$. AR. | | β Octantis. $4^m-5^m$. Dekl. | | τ Octantis. $6^m$. AR. | | τ Octantis. $6^m$. Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $19^h\ 18^m$ | | $-89°\ 14'$ | | $22^h\ 37^m$ | | $-81°\ 50'$ | | $23^h\ 15^m$ | | $-87°\ 58'$ | |
| | s | | " | | s | | " | | s | | " | |
| Okt. 20 | 64.32 | 171 | 33.70 | 6 | 14.57 | 12 | 59.77 | 22 | 56.63 | 42 | 18.06 | 26 |
| 21 | 62.61 | 169 | 33.64 | 7 | 14.45 | 13 | 59.99 | 21 | 56.21 | 46 | 18.32 | 25 |
| 22 | 60.92 | 165 | 33.57 | 10 | 14.32 | 13 | 60.20 | 20 | 55.75 | 48 | 18.57 | 23 |
| 23 | 59.27 | 157 | 33.47 | 11 | 14.19 | 12 | 60.40 | 17 | 55.27 | 48 | 18.80 | 21 |
| 24 | 57.70 | 148 | 33.36 | 12 | 14.07 | 12 | 60.57 | 16 | 54.79 | 46 | 19.01 | 20 |
| 25 | 56.22 | 140 | 33.24 | 11 | 13.95 | 12 | 60.73 | 15 | 54.33 | 44 | 19.21 | 18 |
| 26 | 54.82 | 134 | 33.13 | 11 | 13.83 | 11 | 60.88 | 14 | 53.89 | 42 | 19.39 | 18 |
| 27 | 53.48 | 131 | 33.02 | 9 | 13.72 | 11 | 61.02 | 15 | 53.47 | 40 | 19.57 | 17 |
| 28 | 52.17 | 133 | 32.93 | 9 | 13.61 | 11 | 61.17 | 15 | 53.07 | 38 | 19.74 | 19 |
| 29 | 50.84 | 137 | 32.84 | 7 | 13.50 | 10 | 61.32 | 16 | 52.69 | 39 | 19.93 | 20 |
| 30 | 49.47 | 143 | 32.77 | 8 | 13.40 | 11 | 61.48 | 17 | 52.30 | 41 | 20.13 | 21 |
| 31 | 48.04 | 150 | 32.69 | 9 | 13.29 | 12 | 61.65 | 18 | 51.89 | 43 | 20.34 | 21 |
| Nov. 1 | 46.54 | 155 | 32.60 | 10 | 13.17 | 12 | 61.83 | 18 | 51.46 | 45 | 20.55 | 22 |
| 2 | 44.99 | 158 | 32.50 | 12 | 13.05 | 13 | 62.01 | 18 | 51.01 | 50 | 20.77 | 21 |
| 3 | 43.41 | 158 | 32.38 | 15 | 12.92 | 14 | 62.19 | 15 | 50.51 | 54 | 20.98 | 19 |
| 4 | 41.83 | 152 | 32.23 | 17 | 12.78 | 14 | 62.34 | 12 | 49.97 | 57 | 21.17 | 17 |
| 5 | 40.31 | 144 | 32.06 | 19 | 12.64 | 15 | 62.46 | 11 | 49.40 | 57 | 21.34 | 16 |
| 6 | 38.87 | 134 | 31.87 | 20 | 12.49 | 14 | 62.57 | 8 | 48.83 | 58 | 21.50 | 13 |
| 7 | 37.53 | 124 | 31.67 | 21 | 12.35 | 14 | 62.65 | 7 | 48.25 | 56 | 21.63 | 11 |
| 8 | 36.29 | 116 | 31.46 | 20 | 12.21 | 13 | 62.72 | 6 | 47.69 | 53 | 21.74 | 9 |
| 9 | 35.13 | 109 | 31.26 | 19 | 12.08 | 13 | 62.78 | 6 | 47.16 | 50 | 21.83 | 9 |
| 10 | 34.04 | 105 | 31.07 | 17 | 11.95 | 12 | 62.84 | 6 | 46.66 | 48 | 21.92 | 10 |
| 11 | 32.99 | 106 | 30.90 | 17 | 11.83 | 11 | 62.90 | 7 | 46.18 | 46 | 22.02 | 10 |
| 12 | 31.93 | 113 | 30.73 | 15 | 11.72 | 12 | 62.97 | 8 | 45.72 | 47 | 22.12 | 12 |
| 13 | 30.80 | 120 | 30.58 | 16 | 11.60 | 12 | 63.05 | 10 | 45.25 | 48 | 22.24 | 13 |
| 14 | 29.60 | 127 | 30.42 | 17 | 11.48 | 13 | 63.15 | 10 | 44.77 | 51 | 22.37 | 14 |
| 15 | 28.33 | 132 | 30.25 | 19 | 11.35 | 14 | 63.25 | 9 | 44.26 | 55 | 22.51 | 14 |
| 16 | 27.01 | 133 | 30.06 | 20 | 11.21 | 15 | 63.34 | 8 | 43.71 | 59 | 22.65 | 13 |
| 17 | 25.68 | 132 | 29.86 | 23 | 11.06 | 15 | 63.42 | 7 | 43.12 | 62 | 22.78 | 11 |
| 18 | 24.36 | 127 | 29.63 | 25 | 10.91 | 16 | 63.49 | 5 | 42.50 | 64 | 22.89 | 9 |
| 19 | 23.09 | 118 | 29.38 | 26 | 10.75 | 16 | 63.54 | 2 | 41.86 | 65 | 22.98 | 7 |
| 20 | 21.91 | 109 | 29.12 | 27 | 10.59 | 15 | 63.56 | 0 | 41.21 | 64 | 23.05 | 5 |
| 21 | 20.82 | 98 | 28.85 | 27 | 10.44 | 15 | 63.56 | 0 | 40.57 | 62 | 23.10 | 3 |
| 22 | 19.84 | 90 | 28.58 | 26 | 10.29 | 14 | 63.56 | 1 | 39.95 | 58 | 23.13 | 3 |
| 23 | 18.94 | 85 | 28.32 | 26 | 10.15 | 13 | 63.55 | 2 | 39.37 | 55 | 23.16 | 2 |
| 24 | 18.09 | 83 | 28.06 | 23 | 10.02 | 12 | 63.53 | 1 | 38.82 | 53 | 23.18 | 3 |
| 25 | 17.26 | 84 | 27.83 | 22 | 9.90 | 12 | 63.52 | 0 | 38.29 | 52 | 23.21 | 3 |
| 26 | 16.42 | | 27.61 | | 9.78 | | 63.52 | | 37.77 | | 23.24 | |
| O. K. | $+ 1^s.61 \cos\varphi$ | | | | $+ 0^s.15 \cos\varphi$ | | | | $+ 0^s.60 \cos\varphi$ | | | |
| U. K. | $- 1 .61 \cos\varphi$ | | | | $- 0 .15 \cos\varphi$ | | | | $- 0 .60 \cos\varphi$ | | | |

## Obere Kulmination.

| 1911 | σ Octantis. 6ᵐ. AR. | | σ Octantis. Dekl. | | β Octantis. 4ᵐ–5ᵐ. AR. | | β Octantis. Dekl. | | τ Octantis. 6ᵐ. AR. | | τ Octantis. Dekl. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $19^h\ 18^m$ | | $-89°\ 14'$ | | $22^h\ 37^m$ | | $-81°\ 50'$ | | $23^h\ 15^m$ | | $-87°\ 58'$ | |
| Nov. 26 | 16.42 | 88 | 27.61 | 22 | 9.78 | 13 | 63.52 | 1 | 37.77 | 52 | 23.24 | 5 |
| 27 | 15.54 | 94 | 27.39 | 22 | 9.65 | 13 | 63.53 | 2 | 37.25 | 54 | 23.29 | 5 |
| 28 | 14.60 | 98 | 27.17 | 24 | 9.52 | 13 | 63.55 | 1 | 36.71 | 57 | 23.34 | 5 |
| 29 | 13.62 | 101 | 26.93 | 25 | 9.39 | 14 | 63.56 | 1 | 36.14 | 60 | 23.39 | 5 |
| 30 | 12.61 | 101 | 26.68 | 28 | 9.25 | 15 | 63.57 | 0 | 35.54 | 63 | 23.44 | 3 |
| Dez. 1 | 11.60 | 96 | 26.40 | 29 | 9.10 | 16 | 63.57 | 3 | 34.91 | 66 | 23.47 | 2 |
| 2 | 10.64 | 88 | 26.11 | 31 | 8.94 | 16 | 63.54 | 6 | 34.25 | 67 | 23.49 | −1 |
| 3 | 9.76 | 77 | 25.80 | 33 | 8.78 | 15 | 63.48 | 8 | 33.58 | 67 | 23.48 | 3 |
| 4 | 8.99 | 65 | 25.47 | 33 | 8.63 | 14 | 63.40 | 9 | 32.91 | 65 | 23.45 | 5 |
| 5 | 8.34 | 54 | 25.14 | 33 | 8.49 | 14 | 63.31 | 11 | 32.26 | 63 | 23.40 | 7 |
| 6 | 7.80 | 46 | 24.81 | 31 | 8.35 | 13 | 63.20 | 11 | 31.63 | 59 | 23.33 | 8 |
| 7 | 7.34 | 40 | 24.50 | 30 | 8.22 | 12 | 63.09 | 11 | 31.04 | 55 | 23.25 | 8 |
| 8 | 6.94 | 40 | 24.20 | 29 | 8.10 | 11 | 62.98 | 11 | 30.49 | 53 | 23.17 | 7 |
| 9 | 6.54 | 43 | 23.91 | 27 | 7.99 | 12 | 62.87 | 9 | 29.96 | 52 | 23.10 | 6 |
| 10 | 6.11 | 48 | 23.64 | 27 | 7.87 | 12 | 62.78 | 8 | 29.44 | 53 | 23.04 | 4 |
| 11 | 5.63 | 53 | 23.37 | 28 | 7.75 | 12 | 62.70 | 8 | 28.91 | 55 | 23.00 | 5 |
| 12 | 5.10 | 58 | 23.09 | 29 | 7.63 | 13 | 62.62 | 8 | 28.36 | 57 | 22.95 | 4 |
| 13 | 4.52 | 61 | 22.80 | 30 | 7.50 | 13 | 62.54 | 9 | 27.79 | 60 | 22.91 | 4 |
| 14 | 3.91 | 59 | 22.50 | 32 | 7.37 | 14 | 62.45 | 10 | 27.19 | 63 | 22.87 | 6 |
| 15 | 3.32 | 54 | 22.18 | 34 | 7.23 | 15 | 62.35 | 11 | 26.56 | 66 | 22.81 | 8 |
| 16 | 2.78 | 47 | 21.84 | 36 | 7.08 | 15 | 62.24 | 14 | 25.90 | 66 | 22.73 | 10 |
| 17 | 2.31 | 37 | 21.48 | 36 | 6.93 | 14 | 62.10 | 16 | 25.24 | 65 | 22.63 | 12 |
| 18 | 1.94 | 25 | 21.12 | 36 | 6.79 | 13 | 61.94 | 17 | 24.59 | 63 | 22.51 | 13 |
| 19 | 1.69 | 14 | 20.76 | 36 | 6.66 | 12 | 61.77 | 19 | 23.96 | 59 | 22.38 | 15 |
| 20 | 1.55 | 8 | 20.40 | 34 | 6.54 | 11 | 61.58 | 18 | 23.37 | 55 | 22.23 | 16 |
| 21 | 1.47 | 5 | 20.06 | 32 | 6.43 | 11 | 61.40 | 18 | 22.82 | 53 | 22.07 | 15 |
| 22 | 1.42 | 4 | 19.74 | 31 | 6.32 | 10 | 61.22 | 17 | 22.29 | 50 | 21.92 | 14 |
| 23 | 1.38 | 6 | 19.43 | 30 | 6.22 | 10 | 61.05 | 17 | 21.79 | 49 | 21.78 | 14 |
| 24 | 1.32 | 11 | 19.13 | 30 | 6.12 | 11 | 60.88 | 15 | 21.30 | 49 | 21.64 | 13 |
| 25 | 1.21 | 16 | 18.83 | 30 | 6.01 | 11 | 60.73 | 15 | 20.81 | 51 | 21.51 | 12 |
| 26 | 1.05 | 18 | 18.53 | 31 | 5.90 | 11 | 60.58 | 15 | 20.30 | 54 | 21.39 | 12 |
| 27 | 0.87 | 18 | 18.22 | 33 | 5.79 | 12 | 60.43 | 17 | 19.76 | 57 | 21.27 | 14 |
| 28 | 0.69 | 16 | 17.89 | 35 | 5.67 | 13 | 60.26 | 18 | 19.19 | 60 | 21.13 | 15 |
| 29 | 0.53 | 8 | 17.54 | 37 | 5.54 | 13 | 60.08 | 21 | 18.59 | 61 | 20.98 | 17 |
| 30 | 0.45 | −2 | 17.17 | 39 | 5.41 | 12 | 59.87 | 22 | 17.98 | 61 | 20.81 | 19 |
| 31 | 0.47 | 14 | 16.78 | 38 | 5.29 | 12 | 59.65 | 25 | 17.37 | 59 | 20.62 | 21 |
| 32 | 0.61 | 27 | 16.40 | 38 | 5.17 | 11 | 59.40 | 26 | 16.78 | 55 | 20.41 | 24 |
| 33 | 0.88 | | 16.02 | | 5.06 | | 59.14 | | 16.23 | | 20.17 | |
| O. K. | $+1^s.61 \cos\varphi$ | | | | $+0^s.15 \cos\varphi$ | | | | $+0^s.60 \cos\varphi$ | | | |
| U. K. | $-1.61 \cos\varphi$ | | | | $-0.15 \cos\varphi$ | | | | $-0.60 \cos\varphi$ | | | |

| 1911 | α Andromed. $2^m.1$ AR. | | Dekl. + | | β Cassiopej. $2^m.2$ AR. | | Dekl. + | | ε Phoenicis. $3^m.8$ AR. | | Dekl. − | | γ Pegasi. $2^m.7$ AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $0^h\ 3^m$ | | 28° 35′ | | $0^h\ 4^m$ | | 58° 39′ | | $0^h\ 4^m$ | | 46° 13′ | | $0^h\ 8^m$ | | 14° 41′ | |
| Jan. 0 | 45.90 | 13 | 60.6 | 9 | 23.55 | 31 | 43.9 | 7 | 53.20 | 19 | 99.0 | 3 | 38.07 | 11 | 18.8 | 8 |
| 10 | 45.77 | 13 | 59.7 | 11 | 23.24 | 30 | 43.2 | 11 | 53.01 | 17 | 98.7 | 9 | 37.96 | 11 | 18.0 | 9 |
| 20 | 45.64 | 11 | 58.6 | 14 | 22.94 | 28 | 42.1 | 17 | 52.84 | 15 | 97.8 | 12 | 37.85 | 9 | 17.1 | 10 |
| 30 | 45.53 | 10 | 57.2 | 15 | 22.66 | 24 | 40.4 | 20 | 52.69 | 12 | 96.6 | 17 | 37.76 | 8 | 16.1 | 11 |
| Febr. 9 | 45.43 | 8 | 55.7 | 16 | 22.42 | 19 | 38.4 | 24 | 52.57 | 9 | 94.9 | 21 | 37.68 | 6 | 15.2 | 10 |
| 19 | 45.35 | 4 | 54.1 | 16 | 22.23 | 13 | 36.0 | 26 | 52.48 | 5 | 92.8 | 24 | 37.62 | 3 | 14.2 | 10 |
| März 1 | 45.31 | 0 | 52.5 | 15 | 22.10 | 7 | 33.4 | 26 | 52.43 | 1 | 90.4 | 26 | 37.59 | 1 | 13.2 | 7 |
| 11 | 45.31 | 3 | 51.0 | 13 | 22.03 | 1 | 30.8 | 27 | 52.42 | 3 | 87.8 | 29 | 37.58 | 4 | 12.5 | 6 |
| 21 | 45.34 | 9 | 49.7 | 12 | 22.04 | 11 | 28.1 | 27 | 52.45 | 10 | 84.9 | 34 | 37.62 | 8 | 11.9 | 3 |
| 31 | 45.43 | 13 | 48.5 | 9 | 22.15 | 18 | 25.4 | 23 | 52.55 | 14 | 81.5 | 31 | 37.70 | 12 | 11.6 | 1 |
| April 10 | 45.56 | 18 | 47.6 | 5 | 22.33 | 25 | 23.1 | 19 | 52.69 | 19 | 78.4 | 32 | 37.82 | 16 | 11.5 | 2 |
| 20 | 45.74 | 22 | 47.1 | 2 | 22.58 | 32 | 21.2 | 15 | 52.88 | 24 | 75.2 | 31 | 37.98 | 20 | 11.7 | 6 |
| 30 | 45.96 | 26 | 46.9 | 3 | 22.90 | 39 | 19.7 | 11 | 53.12 | 29 | 72.1 | 31 | 38.18 | 24 | 12.3 | 8 |
| Mai 10 | 46.22 | 30 | 47.2 | 6 | 23.29 | 44 | 18.6 | 6 | 53.41 | 33 | 69.0 | 28 | 38.42 | 27 | 13.1 | 12 |
| 20 | 46.52 | 32 | 47.8 | 10 | 23.73 | 48 | 18.0 | 0 | 53.74 | 37 | 66.2 | 27 | 38.69 | 30 | 14.3 | 15 |
| 30 | 46.84 | 34 | 48.8 | 14 | 24.21 | 51 | 18.0 | 5 | 54.11 | 39 | 63.5 | 24 | 38.99 | 32 | 15.8 | 17 |
| Juni 9 | 47.18 | 35 | 50.2 | 17 | 24.72 | 50 | 18.5 | 11 | 54.50 | 41 | 61.1 | 20 | 39.31 | 33 | 17.5 | 19 |
| 19 | 47.53 | 35 | 51.9 | 19 | 25.22 | 51 | 19.6 | 15 | 54.91 | 43 | 59.1 | 16 | 39.64 | 33 | 19.4 | 21 |
| 29 | 47.88 | 34 | 53.8 | 23 | 25.73 | 49 | 21.1 | 20 | 55.34 | 41 | 57.5 | 12 | 39.97 | 32 | 21.5 | 22 |
| Juli 9 | 48.22 | 33 | 56.1 | 24 | 26.22 | 47 | 23.1 | 24 | 55.75 | 40 | 56.3 | 7 | 40.29 | 31 | 23.7 | 22 |
| 19 | 48.55 | 30 | 58.5 | 25 | 26.69 | 43 | 25.5 | 27 | 56.15 | 38 | 55.6 | 3 | 40.60 | 29 | 25.9 | 22 |
| 29 | 48.85 | 27 | 61.0 | 25 | 27.12 | 38 | 28.2 | 30 | 56.53 | 35 | 55.3 | 3 | 40.89 | 26 | 28.1 | 22 |
| Aug. 8 | 49.12 | 23 | 63.5 | 26 | 27.50 | 33 | 31.2 | 32 | 56.88 | 29 | 55.6 | 7 | 41.15 | 22 | 30.3 | 20 |
| 18 | 49.35 | 19 | 66.1 | 25 | 27.83 | 26 | 34.4 | 33 | 57.17 | 25 | 56.3 | 11 | 41.37 | 19 | 32.3 | 19 |
| 28 | 49.54 | 16 | 68.6 | 24 | 28.09 | 21 | 37.7 | 35 | 57.42 | 20 | 57.4 | 15 | 41.56 | 16 | 34.2 | 18 |
| Sept. 7 | 49.70 | 11 | 71.0 | 23 | 28.30 | 15 | 41.2 | 35 | 57.62 | 14 | 58.9 | 19 | 41.72 | 12 | 36.0 | 15 |
| 17 | 49.81 | 8 | 73.3 | 21 | 28.45 | 8 | 44.7 | 34 | 57.76 | 8 | 60.8 | 20 | 41.84 | 7 | 37.5 | 14 |
| 27 | 49.89 | 3 | 75.4 | 19 | 28.53 | 2 | 48.1 | 33 | 57.84 | 3 | 62.8 | 22 | 41.91 | 5 | 38.9 | 11 |
| Okt. 7 | 49.92 | 0 | 77.3 | 17 | 28.55 | 4 | 51.4 | 31 | 57.87 | 3 | 65.0 | 23 | 41.96 | 1 | 40.0 | 9 |
| 17 | 49.92 | 3 | 79.0 | 14 | 28.51 | 9 | 54.5 | 28 | 57.84 | 7 | 67.3 | 23 | 41.97 | 2 | 40.9 | 6 |
| 27 | 49.89 | 6 | 80.4 | 12 | 28.42 | 15 | 57.3 | 25 | 57.77 | 11 | 69.6 | 20 | 41.95 | 4 | 41.5 | 5 |
| Nov. 6 | 49.83 | 8 | 81.6 | 8 | 28.27 | 20 | 59.8 | 22 | 57.66 | 15 | 71.6 | 19 | 41.91 | 7 | 42.0 | 2 |
| 16 | 49.75 | 10 | 82.4 | 6 | 28.07 | 23 | 62.0 | 17 | 57.51 | 17 | 73.5 | 16 | 41.84 | 8 | 42.2 | 0 |
| 26 | 49.65 | 11 | 83.0 | 2 | 27.84 | 26 | 63.7 | 12 | 57.34 | 19 | 75.1 | 12 | 41.76 | 9 | 42.2 | 2 |
| Dez. 6 | 49.54 | 13 | 83.2 | 2 | 27.58 | 29 | 64.9 | 7 | 57.15 | 20 | 76.3 | 8 | 41.67 | 10 | 42.0 | 4 |
| 16 | 49.41 | 13 | 83.0 | 4 | 27.29 | 30 | 65.6 | 2 | 56.95 | 19 | 77.1 | 3 | 41.57 | 11 | 41.6 | 5 |
| 26 | 49.28 | 13 | 82.6 | 7 | 26.99 | 31 | 65.8 | 4 | 56.76 | 20 | 77.4 | 2 | 41.46 | 11 | 41.1 | 7 |
| 36 | 49.15 | | 81.9 | | 26.68 | | 65.4 | | 56.56 | | 77.2 | | 41.35 | | 40.4 | |
| Mittl. Ort | 47.05 | | 56.7 | | 25.27 | | 31.9 | | 53.77 | | 78.9 | | 39.06 | | 19.4 | |
| | | | 1) | | | | 2) | | | | 3) | | | | 7) | |

| 1911 | ι Ceti. $3^m.5$. AR. | | ι Ceti. Dekl. — | | ζ Tucanae. $4^m.2$. AR. | | ζ Tucanae. Dekl. — | | β Hydri. $2^m.8$. AR. | | β Hydri. Dekl. — | | α Phoenicis. $2^m.3$. AR. | | α Phoenicis. Dekl. — | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $0^h 14^m$ | | 9° 18′ | | $0^h 15^m$ | | 65° 23′ | | $0^h 21^m$ | | 77° 44′ | | $0^h 21^m$ | | 42° 46′ | |
| Jan. 0 | 52.82 s | 10 | 71.3 " | 5 | 26.26 s | 38 | 75.8 " | 10 | 6.26 s | 88 | 104.1 " | 11 | 52.74 s | 18 | 100.9 " | 2 |
| 10 | 52.72 | 10 | 71.8 | 3 | 25.88 | 36 | 74.8 | 14 | 5.38 | 82 | 103.0 | 16 | 52.56 | 16 | 100.7 | 6 |
| 20 | 52.62 | 9 | 72.1 | 2 | 25.52 | 32 | 73.4 | 20 | 4.56 | 74 | 101.4 | 22 | 52.40 | 16 | 100.1 | 10 |
| 30 | 52.53 | 7 | 72.3 | 0 | 25.20 | 28 | 71.4 | 24 | 3.82 | 63 | 99.2 | 27 | 52.24 | 13 | 99.1 | 14 |
| Febr. 9 | 52.46 | 6 | 72.3 | 2 | 24.92 | 21 | 69.0 | 27 | 3.19 | 52 | 96.5 | 31 | 52.11 | 10 | 97.7 | 18 |
| 19 | 52.40 | 3 | 72.1 | 4 | 24.71 | 15 | 66.3 | 32 | 2.67 | 39 | 93.4 | 34 | 52.01 | 7 | 95.9 | 21 |
| März 1 | 52.37 | 0 | 71.7 | 6 | 24.56 | 8 | 63.1 | 34 | 2.28 | 25 | 90.0 | 36 | 51.94 | 3 | 93.8 | 25 |
| 11 | 52.37 | 3 | 71.1 | 9 | 24.48 | 0 | 59.7 | 35 | 2.03 | 9 | 86.4 | 39 | 51.91 | 1 | 91.3 | 27 |
| 21 | 52.40 | 8 | 70.2 | 12 | 24.48 | 9 | 56.2 | 41 | 1.94 | 8 | 82.5 | 43 | 51.92 | 7 | 88.6 | 32 |
| 31 | [25] 52.48 | 11 | 69.0 | 14 | [25] 24.57 | 16 | 52.1 | 38 | [27] 2.02 | 23 | 78.2 | 38 | [27] 51.99 | 11 | 85.4 | 30 |
| April 10 | 52.59 | 15 | 67.6 | 16 | 24.73 | 25 | 48.3 | 37 | 2.25 | 39 | 74.4 | 38 | 52.10 | 16 | 82.4 | 31 |
| 20 | 52.74 | 19 | 66.0 | 18 | 24.98 | 32 | 44.6 | 35 | 2.64 | 53 | 70.6 | 36 | 52.26 | 22 | 79.3 | 31 |
| 30 | 52.93 | 22 | 64.2 | 19 | 25.30 | 40 | 41.1 | 34 | 3.17 | 68 | 67.0 | 34 | 52.48 | 25 | 76.2 | 31 |
| Mai 10 | 53.15 | 26 | 62.3 | 21 | 25.70 | 48 | 37.7 | 31 | 3.85 | 81 | 63.6 | 31 | 52.73 | 31 | 73.1 | 29 |
| 20 | 53.41 | 29 | 60.2 | 22 | 26.18 | 52 | 34.6 | 28 | 4.66 | 92 | 60.5 | 26 | 53.04 | 34 | 70.2 | 28 |
| 30 | 53.70 | 31 | 58.0 | 21 | 26.70 | 58 | 31.8 | 23 | 5.58 | 100 | 57.9 | 23 | 53.38 | 36 | 67.4 | 25 |
| Juni 9 | 54.01 | 32 | 55.9 | 22 | 27.28 | 60 | 29.5 | 19 | 6.58 | 107 | 55.6 | 17 | 53.74 | 39 | 64.9 | 22 |
| 19 | 54.33 | 33 | 53.7 | 21 | 27.88 | 63 | 27.6 | 14 | 7.65 | 111 | 53.9 | 11 | 54.13 | 40 | 62.7 | 19 |
| 29 | 54.66 | 32 | 51.6 | 20 | 28.51 | 62 | 26.2 | 9 | 8.76 | 113 | 52.8 | 7 | 54.53 | 40 | 60.8 | 14 |
| Juli 9 | 54.98 | 31 | 49.6 | 18 | 29.13 | 61 | 25.3 | 3 | 9.89 | 110 | 52.1 | 0 | 54.93 | 39 | 59.4 | 10 |
| 19 | 55.29 | 29 | 47.8 | 15 | 29.74 | 58 | 25.0 | 2 | 10.99 | 105 | 52.1 | 5 | 55.32 | 36 | 58.4 | 5 |
| 29 | 55.58 | 27 | 46.3 | 13 | 30.32 | 53 | 25.2 | 8 | 12.04 | 98 | 52.6 | 11 | 55.68 | 34 | 57.9 | 0 |
| Aug. 8 | 55.85 | 23 | 45.0 | 10 | 30.85 | 47 | 26.0 | 13 | 13.02 | 86 | 53.7 | 16 | 56.02 | 30 | 57.9 | 5 |
| 18 | 56.08 | 20 | 44.0 | 8 | 31.32 | 40 | 27.3 | 17 | 13.88 | 73 | 55.3 | 21 | 56.32 | 26 | 58.4 | 8 |
| 28 | 56.28 | 16 | 43.2 | 4 | 31.72 | 31 | 29.0 | 22 | 14.61 | 57 | 57.4 | 24 | 56.58 | 20 | 59.2 | 13 |
| Sept. 7 | 56.44 | 13 | 42.8 | 2 | 32.03 | 22 | 31.2 | 25 | 15.18 | 39 | 59.8 | 28 | 56.78 | 16 | 60.5 | 17 |
| 17 | 56.57 | 8 | 42.6 | 1 | 32.25 | 12 | 33.7 | 27 | 15.57 | 21 | 62.6 | 29 | 56.94 | 11 | 62.2 | 19 |
| 27 | 56.65 | 5 | 42.7 | 4 | 32.37 | 3 | 36.4 | 28 | 15.78 | 2 | 65.5 | 30 | 57.05 | 5 | 64.1 | 21 |
| Okt. 7 | 56.70 | 2 | 43.1 | 5 | 32.40 | 6 | 39.2 | 28 | 15.80 | 17 | 68.5 | 30 | 57.10 | 0 | 66.2 | 22 |
| 17 | 56.72 | 2 | 43.6 | 7 | 32.34 | 15 | 42.0 | 26 | 15.63 | 35 | 71.5 | 28 | 57.10 | 5 | 68.4 | 22 |
| 27 | 56.70 | 4 | 44.3 | 8 | 32.19 | 23 | 44.6 | 24 | 15.28 | 51 | 74.3 | 25 | 57.05 | 8 | 70.6 | 21 |
| Nov. 6 | 56.66 | 6 | 45.1 | 8 | 31.96 | 29 | 47.0 | 22 | 14.77 | 64 | 76.8 | 22 | 56.97 | 12 | 72.7 | 20 |
| 16 | 56.60 | 8 | 45.9 | 8 | 31.67 | 34 | 49.2 | 16 | 14.13 | 76 | 79.0 | 16 | 56.85 | 14 | 74.7 | 17 |
| 26 | 56.52 | 8 | 46.7 | 9 | 31.33 | 38 | 50.8 | 12 | 13.37 | 84 | 80.6 | 11 | 56.71 | 16 | 76.4 | 13 |
| Dez. 6 | 56.44 | 10 | 47.6 | 7 | 30.95 | 40 | 52.0 | 6 | 12.53 | 90 | 81.7 | 5 | 56.55 | 18 | 77.7 | 10 |
| 16 | 56.34 | 10 | 48.3 | 7 | 30.55 | 40 | 52.6 | 1 | 11.63 | 91 | 82.2 | 1 | 56.37 | 18 | 78.7 | 5 |
| 26 | 56.24 | 11 | 49.0 | 6 | 30.15 | 40 | 52.7 | 5 | 10.72 | 90 | 82.1 | 7 | 56.19 | 18 | 79.2 | 1 |
| 36 | 56.13 | | 49.6 | | 29.75 | | 52.2 | | 9.82 | | 81.4 | | 56.01 | | 79.3 | |
| Mittl. Ort | 53.60 | | 62.3 | | 26.37 | | 52.4 | | 5.43 | | 79.6 | | 53.18 | | 81.9 | |
| | 9) | | | | 10) | | | | 11) | | | | 12) | | | |

| 1911 | 12 Ceti. 6$^m$.1. AR. | | Dekl. − | | ζ Cassiopej. 3$^m$.8. AR. | | Dekl. + | | π Andromed. 4$^m$.2. AR. | | Dekl. + | | δ Andromed. 3$^m$.2. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0$^h$ 25$^m$ | | 4° 26′ | | 0$^h$ 31$^m$ | | 53° 24′ | | 0$^h$ 32$^m$ | | 33° 13′ | | 0$^h$ 34$^m$ | | 30° 22′ | |
| Jan. 0 | 29.06 | 10 | 63.5 | 6 | 59.02 | 26 | 37.6 | 4 | 6.39 | 15 | 52.4 | 7 | 32.93 | 14 | 32.2 | 7 |
| 10 | 28.96 | 10 | 64.1 | 5 | 58.76 | 26 | 37.2 | 9 | 6.24 | 15 | 51.7 | 9 | 32.79 | 15 | 31.5 | 9 |
| 20 | 28.86 | 10 | 64.6 | 3 | 58.50 | 25 | 36.3 | 14 | 6.09 | 14 | 50.8 | 12 | 32.64 | 13 | 30.6 | 11 |
| 30 | 28.76 | 8 | 64.9 | 2 | 58.25 | 22 | 34.9 | 17 | 5.95 | 13 | 49.6 | 14 | 32.51 | 13 | 29.5 | 14 |
| Febr. 9 | 28.68 | 6 | 65.1 | 1 | 58.03 | 19 | 33.2 | 20 | 5.82 | 10 | 48.2 | 16 | 32.38 | 10 | 28.1 | 14 |
| 19 | 28.62 | 4 | 65.2 | 2 | 57.84 | 14 | 31.2 | 23 | 5.72 | 8 | 46.6 | 16 | 32.28 | 7 | 26.7 | 16 |
| März 1 | 28.58 | 2 | 65.0 | 3 | 57.70 | 8 | 28.9 | 24 | 5.64 | 4 | 45.0 | 16 | 32.21 | 4 | 25.1 | 15 |
| 11 | 28.56 | 2 | 64.7 | 6 | 57.62 | 3 | 26.5 | 24 | 5.60 | 0 | 43.4 | 16 | 32.17 | 0 | 23.6 | 14 |
| 21 | 28.58 | 7 | 64.1 | 9 | 57.59 | 5 | 24.1 | 25 | 5.60 | 6 | 41.8 | 15 | 32.17 | 6 | 22.2 | 13 |
| 31 | 28.65 | 10 | 63.2 | 11 | 57.64 | 12 | 21.6 | 21 | 5.66 | 10 | 40.3 | 12 | 32.23 | 9 | 20.9 | 10 |
| April 10 | 28.75 | 14 | 62.1 | 13 | 57.76 | 19 | 19.5 | 19 | 5.76 | 16 | 39.1 | 8 | 32.32 | 15 | 19.9 | 7 |
| 20 | 28.89 | 18 | 60.8 | 15 | 57.95 | 26 | 17.6 | 14 | 5.92 | 20 | 38.3 | 5 | 32.47 | 20 | 19.2 | 4 |
| 30 | 29.07 | 22 | 59.3 | 18 | 58.21 | 32 | 16.2 | 11 | 6.12 | 24 | 37.8 | 2 | 32.67 | 24 | 18.8 | 0 |
| Mai 10 | 29.29 | 25 | 57.5 | 19 | 58.53 | 37 | 15.1 | 6 | 6.36 | 29 | 37.6 | 3 | 32.91 | 28 | 18.8 | 4 |
| 20 | 29.54 | 28 | 55.6 | 20 | 58.90 | 41 | 14.5 | 1 | 6.65 | 32 | 37.9 | 7 | 33.19 | 31 | 19.2 | 8 |
| 30 | 29.82 | 30 | 53.6 | 21 | 59.31 | 44 | 14.4 | 4 | 6.97 | 34 | 38.6 | 10 | 33.50 | 34 | 20.0 | 11 |
| Juni 9 | 30.12 | 32 | 51.5 | 22 | 59.75 | 46 | 14.8 | 9 | 7.31 | 36 | 39.6 | 14 | 33.84 | 35 | 21.1 | 14 |
| 19 | 30.44 | 32 | 49.3 | 21 | 60.21 | 46 | 15.7 | 13 | 7.67 | 36 | 41.0 | 17 | 34.19 | 35 | 22.5 | 18 |
| 29 | 30.76 | 32 | 47.2 | 20 | 60.67 | 46 | 17.0 | 18 | 8.03 | 36 | 42.7 | 21 | 34.54 | 35 | 24.3 | 20 |
| Juli 9 | 31.08 | 31 | 45.2 | 19 | 61.13 | 44 | 18.8 | 21 | 8.39 | 35 | 44.8 | 22 | 34.89 | 35 | 26.3 | 22 |
| 19 | 31.39 | 30 | 43.3 | 18 | 61.57 | 42 | 20.9 | 25 | 8.74 | 33 | 47.0 | 24 | 35.24 | 32 | 28.5 | 24 |
| 29 | 31.69 | 27 | 41.5 | 15 | 61.99 | 38 | 23.4 | 27 | 9.07 | 30 | 49.4 | 25 | 35.56 | 30 | 30.9 | 24 |
| Aug. 8 | 31.96 | 24 | 40.0 | 12 | 62.37 | 33 | 26.1 | 30 | 9.37 | 27 | 51.9 | 26 | 35.86 | 26 | 33.3 | 25 |
| 18 | 32.20 | 20 | 38.8 | 10 | 62.70 | 29 | 29.1 | 31 | 9.64 | 23 | 54.5 | 26 | 36.12 | 23 | 35.8 | 25 |
| 28 | 32.40 | 17 | 37.8 | 7 | 62.99 | 24 | 32.2 | 32 | 9.87 | 19 | 57.1 | 25 | 36.35 | 19 | 38.3 | 24 |
| Sept. 7 | 32.57 | 14 | 37.1 | 5 | 63.23 | 18 | 35.4 | 32 | 10.06 | 15 | 59.6 | 25 | 36.54 | 15 | 40.7 | 24 |
| 17 | 32.71 | 9 | 36.6 | 2 | 63.41 | 13 | 38.6 | 32 | 10.21 | 11 | 62.1 | 23 | 36.69 | 11 | 43.1 | 21 |
| 27 | 32.80 | 6 | 36.4 | 1 | 63.54 | 7 | 41.8 | 32 | 10.32 | 7 | 64.4 | 22 | 36.80 | 7 | 45.2 | 20 |
| Okt. 7 | 32.86 | 3 | 36.5 | 2 | 63.61 | 3 | 45.0 | 29 | 10.39 | 3 | 66.6 | 20 | 36.87 | 4 | 47.2 | 18 |
| 17 | 32.89 | 1 | 36.7 | 5 | 63.64 | 3 | 47.9 | 28 | 10.42 | 0 | 68.6 | 17 | 36.91 | 1 | 49.0 | 16 |
| 27 | 32.88 | 3 | 37.2 | 5 | 63.61 | 8 | 50.7 | 24 | 10.42 | 3 | 70.3 | 15 | 36.92 | 3 | 50.6 | 13 |
| Nov. 6 | 32.85 | 5 | 37.7 | 7 | 63.53 | 11 | 53.1 | 22 | 10.39 | 6 | 71.8 | 12 | 36.89 | 5 | 51.9 | 11 |
| 16 | 32.80 | 6 | 38.4 | 7 | 63.42 | 16 | 55.3 | 17 | 10.33 | 8 | 73.0 | 9 | 36.84 | 8 | 53.0 | 8 |
| 26 | 32.74 | 8 | 39.1 | 7 | 63.26 | 19 | 57.0 | 13 | 10.25 | 11 | 73.9 | 6 | 36.76 | 10 | 53.8 | 5 |
| Dez. 6 | 32.66 | 10 | 39.8 | 7 | 63.07 | 21 | 58.3 | 9 | 10.14 | 12 | 74.5 | 2 | 36.66 | 11 | 54.3 | 1 |
| 16 | 32.56 | 10 | 40.5 | 7 | 62.86 | 24 | 59.2 | 3 | 10.02 | 14 | 74.7 | 2 | 36.55 | 13 | 54.4 | 2 |
| 26 | 32.46 | 10 | 41.2 | 6 | 62.62 | 25 | 59.5 | 1 | 9.88 | 15 | 74.5 | 4 | 36.42 | 14 | 54.2 | 5 |
| 36 | 32.36 | | 41.8 | | 62.37 | | 59.4 | | 9.73 | | 74.1 | | 36.28 | | 53.7 | |
| Mittl. Ort | 29.81 | | 56.5 | | 60.34 | | 25.9 | | 7.42 | | 46.2 | | 33.91 | | 26.8 | |
| | 13) | | | | 17) | | | | 18) | | | | 20) | | | |

| 1911 | α Cassiopej. (2m.2). AR. | | Dekl. + | | β Ceti. 2m.2. AR. | | Dekl. − | | 21 Cassiopej. 5m.8. AR. | | Dekl. + | | ο Cassiopej. 4m.7. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0h 35m | | 56° 2′ | | 0h 39m | | 18° 28′ | | 0h 39m | | 74° 29′ | | 0h 39m | | 47° 47′ | |
| Jan. 0 | 25.56 | 28 | 70.1 | 3 | 6.80 | 12 | 41.6 | 4 | 42.87 | 73 | 81.7 | 1 | 44.42 | 22 | 61.1 | 4 |
| 10 | 25.28 | 28 | 69.8 | 9 | 6.68 | 11 | 42.0 | 1 | 42.14 | 71 | 81.8 | 5 | 44.20 | 21 | 60.7 | 9 |
| 20 | 25.00 | 27 | 68.9 | 13 | 6.57 | 9 | 42.1 | 1 | 41.43 | 69 | 81.3 | 11 | 43.99 | 21 | 59.8 | 12 |
| 30 | 24.73 | 25 | 67.6 | 17 | 6.46 | 9 | 42.0 | 3 | 40.74 | 62 | 80.2 | 16 | 43.78 | 19 | 58.6 | 16 |
| Febr. 9 | 24.48 | 21 | 65.9 | 20 | 6.37 | 8 | 41.7 | 6 | 40.12 | 55 | 78.6 | 22 | 43.59 | 17 | 57.0 | 19 |
| 19 | 24.27 | 16 | 63.9 | 23 | 6.29 | 6 | 41.1 | 9 | 39.57 | 44 | 76.4 | 25 | 43.42 | 12 | 55.1 | 21 |
| März 1 | 24.11 | 11 | 61.6 | 25 | 6.23 | 3 | 40.2 | 11 | 39.13 | 30 | 73.9 | 27 | 43.30 | 8 | 53.0 | 21 |
| 11 | 24.00 | 3 | 59.1 | 25 | 6.20 | 0 | 39.1 | 14 | 38.83 | 17 | 71.2 | 29 | 43.22 | 3 | 50.9 | 22 |
| 21 | 23.97 | 4 | 56.6 | 24 | 6.20 | 4 | 37.7 | 17 | 38.66 | 1 | 68.3 | 29 | 43.19 | 4 | 48.7 | 21 |
| 31 | 24.01 | 12 | 54.2 | 24 | 6.24 | 9 | 36.0 | 20 | 38.65 | 18 | 65.4 | 31 | 43.23 | 11 | 46.6 | 21 |
| April 10 | [31] 24.13 | 19 | 51.8 | 20 | [1] 6.33 | 13 | 34.0 | 21 | [1] 38.83 | 31 | 62.3 | 26 | [1] 43.34 | 17 | 44.5 | 16 |
| 20 | 24.32 | 26 | 49.8 | 16 | 6.46 | 17 | 31.9 | 22 | 39.14 | 46 | 59.7 | 23 | 43.51 | 22 | 42.9 | 13 |
| 30 | 24.58 | 33 | 48.2 | 12 | 6.63 | 21 | 29.7 | 24 | 39.60 | 59 | 57.4 | 19 | 43.73 | 28 | 41.6 | 8 |
| Mai 10 | 24.91 | 39 | 47.0 | 7 | 6.84 | 25 | 27.3 | 25 | 40.19 | 69 | 55.5 | 14 | 44.01 | 33 | 40.8 | 5 |
| 20 | 25.30 | 43 | 46.3 | 3 | 7.09 | 28 | 24.8 | 24 | 40.88 | 78 | 54.1 | 9 | 44.34 | 38 | 40.3 | 1 |
| 30 | 25.73 | 46 | 46.0 | 3 | 7.37 | 30 | 22.4 | 24 | 41.66 | 85 | 53.2 | 4 | 44.72 | 40 | 40.4 | 5 |
| Juni 9 | 26.19 | 49 | 46.3 | 7 | 7.67 | 32 | 20.0 | 23 | 42.51 | 89 | 52.8 | 2 | 45.12 | 42 | 40.9 | 9 |
| 19 | 26.68 | 49 | 47.0 | 13 | 7.99 | 34 | 17.7 | 21 | 43.40 | 90 | 53.0 | 7 | 45.54 | 42 | 41.8 | 14 |
| 29 | 27.17 | 48 | 48.3 | 17 | 8.33 | 33 | 15.6 | 20 | 44.30 | 89 | 53.7 | 13 | 45.96 | 43 | 43.2 | 18 |
| Juli 9 | 27.65 | 47 | 50.0 | 20 | 8.66 | 32 | 13.6 | 17 | 45.19 | 86 | 55.0 | 18 | 46.39 | 41 | 45.0 | 21 |
| 19 | 28.12 | 44 | 52.0 | 24 | 8.98 | 31 | 11.9 | 14 | 46.05 | 82 | 56.8 | 22 | 46.80 | 38 | 47.1 | 24 |
| 29 | 28.56 | 40 | 54.4 | 28 | 9.29 | 29 | 10.5 | 10 | 46.87 | 74 | 59.0 | 26 | 47.18 | 36 | 49.5 | 26 |
| Aug. 8 | 28.96 | 36 | 57.2 | 30 | 9.58 | 26 | 9.5 | 7 | 47.61 | 66 | 61.6 | 30 | 47.54 | 32 | 52.1 | 29 |
| 18 | 29.32 | 31 | 60.2 | 31 | 9.84 | 23 | 8.8 | 3 | 48.27 | 57 | 64.6 | 33 | 47.86 | 27 | 55.0 | 29 |
| 28 | 29.63 | 25 | 63.3 | 33 | 10.07 | 19 | 8.5 | 0 | 48.84 | 46 | 67.9 | 35 | 48.13 | 23 | 57.9 | 30 |
| Sept. 7 | 29.88 | 20 | 66.6 | 33 | 10.26 | 15 | 8.5 | 3 | 49.30 | 35 | 71.4 | 36 | 48.36 | 18 | 60.9 | 31 |
| 17 | 30.08 | 14 | 69.9 | 33 | 10.41 | 11 | 8.8 | 6 | 49.65 | 24 | 75.0 | 38 | 48.54 | 13 | 64.0 | 29 |
| 27 | 30.22 | 8 | 73.2 | 32 | 10.52 | 7 | 9.4 | 9 | 49.89 | 12 | 78.8 | 37 | 48.67 | 9 | 66.9 | 29 |
| Okt. 7 | 30.30 | 3 | 76.4 | 30 | 10.59 | 4 | 10.3 | 11 | 50.01 | 0 | 82.5 | 37 | 48.76 | 4 | 69.8 | 27 |
| 17 | 30.33 | 3 | 79.4 | 29 | 10.63 | 0 | 11.4 | 12 | 50.01 | 12 | 86.2 | 35 | 48.80 | 1 | 72.5 | 25 |
| 27 | 30.30 | 8 | 82.3 | 26 | 10.63 | 2 | 12.6 | 13 | 49.89 | 23 | 89.7 | 33 | 48.79 | 4 | 75.0 | 23 |
| Nov. 6 | 30.22 | 12 | 84.9 | 23 | 10.61 | 5 | 13.9 | 12 | 49.66 | 34 | 93.0 | 29 | 48.75 | 8 | 77.3 | 19 |
| 16 | 30.10 | 17 | 87.2 | 19 | 10.56 | 7 | 15.1 | 13 | 49.32 | 45 | 95.9 | 26 | 48.67 | 12 | 79.2 | 16 |
| 26 | 29.93 | 21 | 89.1 | 14 | 10.49 | 9 | 16.4 | 11 | 48.87 | 53 | 98.5 | 22 | 48.55 | 15 | 80.8 | 12 |
| Dez. 6 | 29.72 | 23 | 90.5 | 10 | 10.40 | 10 | 17.5 | 10 | 48.34 | 61 | 100.7 | 16 | 48.40 | 17 | 82.0 | 7 |
| 16 | 29.49 | 26 | 91.5 | 4 | 10.30 | 11 | 18.5 | 8 | 47.73 | 67 | 102.3 | 10 | 48.23 | 20 | 82.7 | 3 |
| 26 | 29.23 | 28 | 91.9 | 0 | 10.19 | 12 | 19.3 | 5 | 47.06 | 69 | 103.3 | 4 | 48.03 | 20 | 83.0 | 2 |
| 36 | 28.95 | | 91.9 | | 10.07 | | 19.8 | | 46.37 | | 103.7 | | 47.83 | | 82.8 | |
| Mittl. Ort | 26.92 | | 57.7 | | 7.36 | | 30.1 | | 45.05 | | 66.1 | | 45.58 | | 50.6 | |
| | 21) | | | | 22) | | | | 24) | | | | 25) | | | |

| 1911 | ζ Andromed. 4ᵐ.1. AR. | | Dekl. + | | γ Cassiopej. 2ᵐ.0. AR. | | Dekl. + | | μ Andromed. 3ᵐ.9. AR. | | Dekl. + | | α Sculptoris. 4ᵐ.1. AR. | | Dekl. — | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0ʰ 42ᵐ | | 23° 46′ | | 0ʰ 51ᵐ | | 60° 13′ | | 0ʰ 51ᵐ | | 38° 0′ | | 0ʰ 54ᵐ | | 29° 49′ | |
| Jan. 0 | 36.21ˢ | 12 | 62.7″ | 6 | 18.32ˢ | 33 | 79.6″ | 1 | 47.56ˢ | 16 | 68.7″ | 5 | 18.73ˢ | 14 | 92.8″ | 4 |
| 10 | 36.09 | 13 | 62.1 | 8 | 17.99 | 33 | 79.5 | 6 | 47.40 | 17 | 68.2 | 8 | 18.59 | 14 | 93.2 | 0 |
| 20 | 35.96 | 13 | 61.3 | 11 | 17.66 | 33 | 78.9 | 11 | 47.23 | 17 | 67.4 | 10 | 18.45 | 14 | 93.2 | 4 |
| 30 | 35.83 | 11 | 60.2 | 11 | 17.33 | 31 | 77.8 | 16 | 47.06 | 15 | 66.4 | 14 | 18.31 | 12 | 92.8 | 7 |
| Febr. 9 | 35.72 | 10 | 59.1 | 12 | 17.02 | 26 | 76.2 | 19 | 46.91 | 14 | 65.0 | 16 | 18.19 | 11 | 92.1 | 10 |
| 19 | 35.62 | 7 | 57.9 | 12 | 16.76 | 22 | 74.3 | 23 | 46.77 | 10 | 63.4 | 17 | 18.08 | 9 | 91.1 | 14 |
| März 1 | 35.55 | 4 | 56.7 | 12 | 16.54 | 15 | 72.0 | 24 | 46.67 | 7 | 61.7 | 17 | 17.99 | 5 | 89.7 | 17 |
| 11 | 35.51 | 0 | 55.5 | 10 | 16.39 | 8 | 69.6 | 26 | 46.60 | 2 | 60.0 | 18 | 17.94 | 2 | 88.0 | 20 |
| 21 | 35.51 | 4 | 54.5 | 9 | 16.31 | 1 | 67.0 | 25 | 46.58 | 2 | 58.2 | 16 | 17.92 | 2 | 86.0 | 23 |
| 31 | 35.55 | 9 | 53.6 | 7 | 16.32 | 10 | 64.5 | 26 | 46.60 | 9 | 56.6 | 16 | 17.94 | 7 | 83.7 | 28 |
| April 10 | 35.64 | 13 | 52.9 | 4 | 16.42 | 18 | 61.9 | 22 | 46.69 | 14 | 55.0 | 11 | 18.01 | 11 | 80.9 | 26 |
| 20 | 35.77 | 18 | 52.5 | 0 | 16.60 | 27 | 59.7 | 19 | 46.83 | 19 | 53.9 | 9 | 18.12 | 15 | 78.3 | 27 |
| 30 | 35.95 | 23 | 52.5 | 3 | 16.87 | 33 | 57.8 | 14 | 47.02 | 24 | 53.0 | 4 | 18.27 | 21 | 75.6 | 28 |
| Mai 10 | 36.18 | 26 | 52.8 | 6 | 17.20 | 41 | 56.4 | 11 | 47.26 | 28 | 52.6 | 1 | 18.48 | 24 | 72.8 | 29 |
| 20 | 36.44 | 29 | 53.4 | 10 | 17.61 | 46 | 55.3 | 5 | 47.54 | 33 | 52.5 | 3 | 18.72 | 28 | 69.9 | 27 |
| 30 | 36.73 | 32 | 54.4 | 13 | 18.07 | 49 | 54.8 | 1 | 47.87 | 35 | 52.8 | 8 | 19.00 | 31 | 67.2 | 27 |
| Juni 9 | 37.05 | 33 | 55.7 | 16 | 18.56 | 53 | 54.7 | 5 | 48.22 | 37 | 53.6 | 11 | 19.31 | 33 | 64.5 | 24 |
| 19 | 37.38 | 35 | 57.3 | 18 | 19.09 | 54 | 55.2 | 9 | 48.59 | 38 | 54.7 | 15 | 19.64 | 35 | 62.1 | 22 |
| 29 | 37.73 | 34 | 59.1 | 20 | 19.63 | 54 | 56.1 | 15 | 48.97 | 38 | 56.2 | 17 | 19.99 | 35 | 59.9 | 19 |
| Juli 9 | 38.07 | 33 | 61.1 | 21 | 20.17 | 52 | 57.6 | 18 | 49.35 | 37 | 57.9 | 21 | 20.34 | 35 | 58.0 | 16 |
| 19 | 38.40 | 31 | 63.2 | 23 | 20.69 | 50 | 59.4 | 22 | 49.72 | 35 | 60.0 | 23 | 20.69 | 33 | 56.4 | 12 |
| 29 | 38.71 | 29 | 65.5 | 23 | 21.19 | 46 | 61.6 | 26 | 50.07 | 33 | 62.3 | 25 | 21.02 | 32 | 55.2 | 7 |
| Aug. 8 | 39.00 | 26 | 67.8 | 23 | 21.65 | 42 | 64.2 | 29 | 50.40 | 29 | 64.8 | 26 | 21.34 | 28 | 54.5 | 3 |
| 18 | 39.26 | 23 | 70.1 | 22 | 22.07 | 36 | 67.1 | 30 | 50.69 | 26 | 67.4 | 26 | 21.62 | 26 | 54.2 | 1 |
| 28 | 39.49 | 19 | 72.3 | 21 | 22.43 | 31 | 70.1 | 33 | 50.95 | 23 | 70.0 | 27 | 21.88 | 21 | 54.3 | 5 |
| Sept. 7 | 39.68 | 16 | 74.4 | 20 | 22.74 | 24 | 73.4 | 34 | 51.18 | 18 | 72.7 | 26 | 22.09 | 17 | 54.8 | 9 |
| 17 | 39.84 | 11 | 76.4 | 18 | 22.98 | 19 | 76.8 | 34 | 51.36 | 14 | 75.3 | 25 | 22.26 | 14 | 55.7 | 12 |
| 27 | 39.95 | 9 | 78.2 | 17 | 23.17 | 11 | 80.2 | 33 | 51.50 | 10 | 77.8 | 24 | 22.40 | 8 | 56.9 | 15 |
| Okt. 7 | 40.04 | 4 | 79.9 | 14 | 23.28 | 6 | 83.5 | 32 | 51.60 | 5 | 80.2 | 23 | 22.48 | 5 | 58.4 | 17 |
| 17 | 40.08 | 2 | 81.3 | 12 | 23.34 | 0 | 86.7 | 31 | 51.65 | 2 | 82.5 | 20 | 22.53 | 1 | 60.1 | 18 |
| 27 | 40.10 | 1 | 82.5 | 10 | 23.34 | 7 | 89.8 | 28 | 51.67 | 1 | 84.5 | 18 | 22.54 | 2 | 61.9 | 19 |
| Nov. 6 | 40.09 | 4 | 83.5 | 7 | 23.27 | 12 | 92.6 | 26 | 51.66 | 4 | 86.3 | 15 | 22.52 | 6 | 63.8 | 18 |
| 16 | 40.05 | 6 | 84.2 | 5 | 23.15 | 17 | 95.2 | 22 | 51.62 | 7 | 87.8 | 12 | 22.46 | 8 | 65.6 | 16 |
| 26 | 39.99 | 8 | 84.7 | 3 | 22.98 | 22 | 97.4 | 17 | 51.55 | 11 | 89.0 | 9 | 22.38 | 10 | 67.2 | 15 |
| Dez. 6 | 39.91 | 10 | 85.0 | 0 | 22.76 | 26 | 99.1 | 13 | 51.44 | 12 | 89.9 | 5 | 22.28 | 12 | 68.7 | 12 |
| 16 | 39.81 | 12 | 85.0 | 3 | 22.50 | 29 | 100.4 | 7 | 51.32 | 14 | 90.4 | 1 | 22.16 | 13 | 69.9 | 9 |
| 26 | 39.69 | 12 | 84.7 | 5 | 22.21 | 32 | 101.1 | 2 | 51.18 | 16 | 90.5 | 2 | 22.03 | 14 | 70.8 | 5 |
| 36 | 39.57 | | 84.2 | | 21.89 | | 101.3 | | 51.02 | | 90.3 | | 21.89 | | 71.3 | |
| Mittl. Ort | 37.08 | | 59.3 | | 19.63 | | 65.9 | | 48.51 | | 60.5 | | 19.06 | | 78.2 | |
| | 27) | | | | 32) | | | | 33) | | | | 35) | | | |

| 1911 | ε Piscium. $4^m.2$. | | | | β Phoenicis. $3^m.2$. | | | | β Andromed. $2^m.1$. | | | | υ Piscium. $4^m.6$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. − | | AR. | | Dekl. + | | AR. | | Dekl. + | |
| | $0^h\ 58^m$ | | $7°\ 24'$ | | $1^h\ 2^m$ | | $47°\ 11'$ | | $1^h\ 4^m$ | | $35°\ 8'$ | | $1^h\ 14^m$ | | $26°\ 47'$ | |
| Jan. 0 | $18^s.71$ | 11 | $38''.4$ | 6 | $6^s.77$ | 22 | $61''.9$ | 2 | $43^s.83$ | 15 | $63''.9$ | 4 | $33^s.56$ | 13 | $52''.6$ | 4 |
| 10 | 18.60 | 12 | 37.8 | 6 | 6.55 | 22 | 62.1 | 3 | 43.68 | 16 | 63.5 | 7 | 33.43 | 14 | 52.2 | 6 |
| 20 | 18.48 | 11 | 37.2 | 6 | 6.33 | 21 | 61.8 | 8 | 43.52 | 16 | 62.8 | 10 | 33.29 | 14 | 51.6 | 9 |
| 30 | 18.37 | 10 | 36.6 | 7 | 6.12 | 19 | 61.0 | 13 | 43.36 | 15 | 61.8 | 12 | 33.15 | 14 | 50.7 | 10 |
| Febr. 9 | 18.27 | 9 | 35.9 | 5 | 5.93 | 16 | 59.7 | 17 | 43.21 | 14 | 60.6 | 14 | 33.01 | 12 | 49.7 | 11 |
| 19 | 18.18 | 7 | 35.4 | 4 | 5.77 | 13 | 58.0 | 21 | 43.07 | 11 | 59.2 | 15 | 32.89 | 10 | 48.6 | 12 |
| März 1 | 18.11 | 5 | 35.0 | 3 | 5.64 | 11 | 55.9 | 25 | 42.96 | 8 | 57.7 | 16 | 32.79 | 8 | 47.4 | 12 |
| 11 | 18.06 | 1 | 34.7 | 1 | 5.53 | 5 | 53.4 | 28 | 42.88 | 3 | 56.1 | 16 | 32.71 | 4 | 46.2 | 12 |
| 21 | 18.05 | 2 | 34.6 | 1 | 5.48 | 1 | 50.6 | 30 | 42.85 | 1 | 54.5 | 15 | 32.67 | 1 | 45.0 | 10 |
| 31 | 18.07 | 7 | 34.7 | 3 | 5.47 | 5 | 47.6 | 36 | 42.86 | 7 | 53.0 | 14 | 32.68 | 5 | 44.0 | 8 |
| April 10 | 6) 18.14 | 11 | 35.0 | 6 | 7) 5.52 | 10 | 44.0 | 33 | 8) 42.93 | 12 | 51.6 | 10 | 10) 32.73 | 11 | 43.2 | 7 |
| 20 | 18.25 | 16 | 35.6 | 8 | 5.62 | 16 | 40.7 | 34 | 43.05 | 18 | 50.6 | 8 | 32.84 | 15 | 42.5 | 3 |
| 30 | 18.41 | 20 | 36.4 | 12 | 5.78 | 22 | 37.3 | 33 | 43.23 | 22 | 49.8 | 4 | 32.99 | 20 | 42.2 | 0 |
| Mai 10 | 18.61 | 23 | 37.6 | 13 | 6.00 | 26 | 34.0 | 33 | 43.45 | 26 | 49.4 | 0 | 33.19 | 24 | 42.2 | 4 |
| 20 | 18.84 | 26 | 38.9 | 16 | 6.26 | 32 | 30.7 | 31 | 43.71 | 31 | 49.4 | 4 | 33.43 | 28 | 42.6 | 7 |
| 30 | 19.10 | 30 | 40.5 | 18 | 6.58 | 35 | 27.6 | 28 | 44.02 | 33 | 49.8 | 7 | 33.71 | 32 | 43.3 | 9 |
| Juni 9 | 19.40 | 31 | 42.3 | 19 | 6.93 | 38 | 24.8 | 26 | 44.35 | 36 | 50.5 | 11 | 34.03 | 33 | 44.2 | 13 |
| 19 | 19.71 | 32 | 44.2 | 20 | 7.31 | 41 | 22.2 | 21 | 44.71 | 37 | 51.6 | 15 | 34.36 | 34 | 45.5 | 16 |
| 29 | 20.03 | 32 | 46.2 | 21 | 7.72 | 41 | 20.1 | 18 | 45.08 | 38 | 53.1 | 17 | 34.70 | 35 | 47.1 | 18 |
| Juli 9 | 20.35 | 32 | 48.3 | 20 | 8.13 | 41 | 18.3 | 12 | 45.46 | 36 | 54.8 | 20 | 35.05 | 35 | 48.9 | 20 |
| 19 | 20.67 | 31 | 50.3 | 20 | 8.54 | 40 | 17.1 | 8 | 45.82 | 35 | 56.8 | 21 | 35.40 | 33 | 50.9 | 21 |
| 29 | 20.98 | 28 | 52.3 | 19 | 8.94 | 38 | 16.3 | 3 | 46.17 | 33 | 58.9 | 24 | 35.73 | 31 | 53.0 | 21 |
| Aug. 8 | 21.26 | 26 | 54.2 | 17 | 9.32 | 36 | 16.0 | 3 | 46.50 | 30 | 61.3 | 24 | 36.04 | 29 | 55.1 | 22 |
| 18 | 21.52 | 23 | 55.9 | 15 | 9.68 | 31 | 16.3 | 8 | 46.80 | 27 | 63.7 | 25 | 36.33 | 26 | 57.3 | 22 |
| 28 | 21.75 | 20 | 57.4 | 13 | 9.99 | 26 | 17.1 | 12 | 47.07 | 23 | 66.2 | 25 | 36.59 | 23 | 59.5 | 22 |
| Sept. 7 | 21.95 | 16 | 58.7 | 12 | 10.25 | 21 | 18.3 | 17 | 47.30 | 19 | 68.7 | 24 | 36.82 | 19 | 61.7 | 20 |
| 17 | 22.11 | 13 | 59.9 | 8 | 10.46 | 16 | 20.0 | 20 | 47.49 | 15 | 71.1 | 24 | 37.01 | 16 | 63.7 | 20 |
| 27 | 22.24 | 10 | 60.7 | 7 | 10.62 | 11 | 22.0 | 23 | 47.64 | 12 | 73.5 | 22 | 37.17 | 12 | 65.7 | 17 |
| Okt. 7 | 22.34 | 6 | 61.4 | 5 | 10.73 | 4 | 24.3 | 24 | 47.76 | 7 | 75.7 | 21 | 37.29 | 9 | 67.4 | 16 |
| 17 | 22.40 | 3 | 61.9 | 2 | 10.77 | 0 | 26.7 | 25 | 47.83 | 4 | 77.8 | 19 | 37.38 | 5 | 69.0 | 14 |
| 27 | 22.43 | 0 | 62.1 | 0 | 10.77 | 5 | 29.2 | 25 | 47.87 | 1 | 79.7 | 16 | 37.43 | 2 | 70.4 | 12 |
| Nov. 6 | 22.43 | 2 | 62.1 | 1 | 10.72 | 10 | 31.7 | 23 | 47.88 | 3 | 81.3 | 14 | 37.45 | 1 | 71.6 | 10 |
| 16 | 22.41 | 4 | 62.0 | 2 | 10.62 | 13 | 34.0 | 21 | 47.85 | 6 | 82.7 | 12 | 37.44 | 3 | 72.6 | 7 |
| 26 | 22.37 | 6 | 61.8 | 4 | 10.49 | 17 | 36.1 | 17 | 47.79 | 8 | 83.9 | 8 | 37.41 | 7 | 73.3 | 5 |
| Dez. 6 | 22.31 | 8 | 61.4 | 4 | 10.32 | 18 | 37.8 | 14 | 47.71 | 10 | 84.7 | 4 | 37.34 | 8 | 73.8 | 2 |
| 16 | 22.23 | 9 | 61.0 | 6 | 10.14 | 21 | 39.2 | 9 | 47.61 | 13 | 85.1 | 2 | 37.26 | 11 | 74.0 | 0 |
| 26 | 22.14 | 10 | 60.4 | 6 | 9.93 | 21 | 40.1 | 5 | 47.48 | 14 | 85.3 | 2 | 37.15 | 12 | 74.0 | 3 |
| 36 | 22.04 | | 59.8 | | 9.72 | | 40.6 | | 47.34 | | 85.1 | | 37.03 | | 73.7 | |
| Mittl. Ort | 19.35 | | 40.3 | | 6.76 | | 43.2 | | 44.67 | | 56.2 | | 34.26 | | 47.4 | |
| | | | 36) | | | | 38) | | | | 42) | | | | 45) | |

| 1911 | ϑ Ceti. $3^m.4$. AR. | | Dekl. − | | δ Cassiopej. $2^m.7$. AR. | | Dekl. + | | η Piscium. $3^m.6$. AR. | | Dekl. + | | 40 Cassiopej. $5^m.5$. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $1^h\ 19^m$ | | 8° 38′ | | $1^h\ 19^m$ | | 59° 46′ | | $1^h\ 26^m$ | | 14° 53′ | | $1^h\ 31^m$ | | 72° 35′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | | s | | ″ | |
| Jan. 0 | 34.08 | 11 | 39.3 | 7 | 57.99 | 32 | 37.1 | 3 | 42.56 | 11 | 15.6 | 5 | 21.70 | 59 | 29.0 | 7 |
| 10 | 33.97 | 12 | 40.0 | 5 | 57.67 | 32 | 37.4 | 3 | 42.45 | 12 | 15.1 | 6 | 21.11 | 62 | 29.7 | 2 |
| 20 | 33.85 | 12 | 40.5 | 4 | 57.35 | 33 | 37.1 | 7 | 42.33 | 13 | 14.5 | 6 | 20.49 | 62 | 29.9 | 5 |
| 30 | 33.73 | 11 | 40.9 | 1 | 57.02 | 32 | 36.4 | 12 | 42.20 | 12 | 13.9 | 7 | 19.87 | 61 | 29.4 | 10 |
| Febr. 9 | 33.62 | 11 | 41.0 | 1 | 56.70 | 29 | 35.2 | 17 | 42.08 | 11 | 13.2 | 8 | 19.26 | 56 | 28.4 | 15 |
| 19 | 33.51 | 9 | 40.9 | 3 | 56.41 | 25 | 33.5 | 20 | 41.97 | 10 | 12.4 | 7 | 18.70 | 50 | 26.9 | 20 |
| März 1 | 33.42 | 6 | 40.6 | 6 | 56.16 | 19 | 31.5 | 22 | 41.87 | 7 | 11.7 | 6 | 18.20 | 39 | 24.9 | 23 |
| 11 | 33.36 | 4 | 40.0 | 8 | 55.97 | 12 | 29.3 | 24 | 41.80 | 5 | 11.1 | 5 | 17.81 | 28 | 22.6 | 26 |
| 21 | 33.32 | 0 | 39.2 | 10 | 55.85 | 4 | 26.9 | 25 | 41.75 | 0 | 10.6 | 3 | 17.53 | 16 | 20.0 | 28 |
| 31 | 33.32 | 5 | 38.2 | 13 | 55.81 | 3 | 24.4 | 24 | 41.75 | 4 | 10.3 | 2 | 17.37 | 2 | 17.2 | 28 |
| April 10 | 33.37 | 9 | 36.9 | 16 | 55.84 | 14 | 22.0 | 25 | 41.79 | 9 | 10.1 | 1 | 17.35 | 15 | 14.4 | 29 |
| 20 | [12] 33.46 | 12 | 35.3 | 17 | [12] 55.98 | 22 | 19.5 | 20 | [14] 41.88 | 13 | 10.2 | 4 | [15] 17.50 | 28 | 11.5 | 25 |
| 30 | 33.58 | 18 | 33.6 | 20 | 56.20 | 29 | 17.5 | 16 | 42.01 | 18 | 10.6 | 6 | 17.78 | 41 | 9.0 | 22 |
| Mai 10 | 33.76 | 21 | 31.6 | 20 | 56.49 | 37 | 15.9 | 12 | 42.19 | 22 | 11.2 | 9 | 18.19 | 53 | 6.8 | 18 |
| 20 | 33.97 | 25 | 29.6 | 22 | 56.86 | 42 | 14.7 | 8 | 42.41 | 25 | 12.1 | 12 | 18.72 | 62 | 5.0 | 13 |
| 30 | 34.22 | 27 | 27.4 | 22 | 57.28 | 48 | 13.9 | 4 | 42.66 | 29 | 13.3 | 14 | 19.34 | 71 | 3.7 | 10 |
| Juni 9 | 34.49 | 30 | 25.2 | 23 | 57.76 | 51 | 13.5 | 1 | 42.95 | 31 | 14.7 | 16 | 20.05 | 78 | 2.7 | 4 |
| 19 | 34.79 | 32 | 22.9 | 22 | 58.27 | 53 | 13.6 | 6 | 43.26 | 32 | 16.3 | 18 | 20.83 | 81 | 2.3 | 1 |
| 29 | 35.11 | 32 | 20.7 | 21 | 58.80 | 54 | 14.2 | 11 | 43.58 | 33 | 18.1 | 19 | 21.64 | 84 | 2.4 | 6 |
| Juli 9 | 35.43 | 32 | 18.6 | 19 | 59.34 | 54 | 15.3 | 15 | 43.91 | 32 | 20.0 | 19 | 22.48 | 84 | 3.0 | 11 |
| 19 | 35.75 | 31 | 16.7 | 17 | 59.88 | 52 | 16.8 | 19 | 44.23 | 32 | 21.9 | 20 | 23.32 | 81 | 4.1 | 16 |
| 29 | 36.06 | 29 | 15.0 | 15 | 60.40 | 49 | 18.7 | 23 | 44.55 | 31 | 23.9 | 20 | 24.13 | 78 | 5.7 | 21 |
| Aug. 8 | 36.35 | 28 | 13.5 | 12 | 60.89 | 45 | 21.0 | 26 | 44.86 | 28 | 25.9 | 18 | 24.91 | 73 | 7.8 | 24 |
| 18 | 36.63 | 24 | 12.3 | 9 | 61.34 | 41 | 23.6 | 29 | 45.14 | 25 | 27.7 | 18 | 25.64 | 66 | 10.2 | 27 |
| 28 | 36.87 | 22 | 11.4 | 6 | 61.75 | 36 | 26.5 | 30 | 45.39 | 23 | 29.5 | 16 | 26.30 | 58 | 12.9 | 31 |
| Sept. 7 | 37.09 | 18 | 10.8 | 2 | 62.11 | 30 | 29.5 | 31 | 45.62 | 19 | 31.1 | 15 | 26.88 | 50 | 16.0 | 33 |
| 17 | 37.27 | 15 | 10.6 | 1 | 62.41 | 24 | 32.6 | 33 | 45.81 | 16 | 32.6 | 13 | 27.38 | 41 | 19.3 | 34 |
| 27 | 37.42 | 11 | 10.7 | 3 | 62.65 | 18 | 35.9 | 32 | 45.97 | 13 | 33.9 | 10 | 27.79 | 31 | 22.7 | 36 |
| Okt. 7 | 37.53 | 8 | 11.0 | 5 | 62.83 | 13 | 39.1 | 32 | 46.10 | 9 | 34.9 | 9 | 28.10 | 20 | 26.3 | 36 |
| 17 | 37.61 | 5 | 11.5 | 8 | 62.96 | 6 | 42.3 | 31 | 46.19 | 7 | 35.8 | 7 | 28.30 | 9 | 29.9 | 35 |
| 27 | 37.66 | 2 | 12.3 | 9 | 63.02 | 1 | 45.4 | 29 | 46.26 | 3 | 36.5 | 5 | 28.39 | 1 | 33.4 | 34 |
| Nov. 6 | 37.68 | 1 | 13.2 | 9 | 63.01 | 6 | 48.3 | 27 | 46.29 | 1 | 37.0 | 3 | 28.38 | 12 | 36.8 | 32 |
| 16 | 37.67 | 3 | 14.1 | 11 | 62.95 | 11 | 51.0 | 23 | 46.30 | 2 | 37.3 | 1 | 28.26 | 23 | 40.0 | 29 |
| 26 | 37.64 | 6 | 15.2 | 10 | 62.84 | 17 | 53.3 | 20 | 46.28 | 5 | 37.4 | 1 | 28.03 | 32 | 42.9 | 25 |
| Dez. 6 | 37.58 | 7 | 16.2 | 9 | 62.67 | 22 | 55.3 | 15 | 46.23 | 6 | 37.3 | 1 | 27.71 | 42 | 45.4 | 21 |
| 16 | 37.51 | 9 | 17.1 | 9 | 62.45 | 26 | 56.8 | 11 | 46.17 | 9 | 37.2 | 3 | 27.29 | 49 | 47.5 | 17 |
| 26 | 37.42 | 10 | 18.0 | 7 | 62.19 | 30 | 57.9 | 6 | 46.08 | 10 | 36.9 | 5 | 26.80 | 56 | 49.2 | 11 |
| 36 | 37.32 | | 18.7 | | 61.89 | | 58.5 | | 45.98 | | 36.4 | | 26.24 | | 50.3 | |
| Mittl. Ort | 34.46 | | 32.6 | | 58.99 | | 23.0 | | 43.10 | | 14.1 | | 22.84 | | 12.6 | |
| | 47) | | | | 48) | | | | 50) | | | | 51) | | | |

| 1911 | υ Persei. $3^m.6$. AR. | Δ | Dekl. + | Δ | α Eridani. $1^m$. AR. | Δ | Dekl. − | Δ | 43 Cassiopej. $5^m.9$. AR. | Δ | Dekl. + | Δ | φ Persei. $4^m.1$. AR. | Δ | Dekl. + | Δ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $1^h 32^m$ | | 48° 10′ | | $1^h 34^m$ | | 57° 40′ | | $1^h 35^m$ | | 67° 35′ | | $1^h 38^m$ | | 50° 14′ | |
| **Jan.** 0 | 30.58 | 20 | 51.2 | 1 | 24.79 | 31 | 98.8 | 4 | 43.01 | 43 | 51.6 | 7 | 3.75 | 22 | 39.0 | 2 |
| 10 | 30.38 | 22 | 51.3 | 3 | 24.48 | 32 | 99.2 | 2 | 42.58 | 47 | 52.3 | 1 | 3.53 | 23 | 39.2 | 2 |
| 20 | 30.16 | 23 | 51.0 | 7 | 24.16 | 32 | 99.0 | 7 | 42.11 | 47 | 52.4 | 5 | 3.30 | 24 | 39.0 | 6 |
| 30 | 29.93 | 22 | 50.3 | 10 | 23.84 | 30 | 98.3 | 13 | 41.64 | 46 | 51.9 | 10 | 3.06 | 24 | 38.4 | 10 |
| **Febr.** 9 | 29.71 | 20 | 49.3 | 15 | 23.54 | 29 | 97.0 | 18 | 41.18 | 43 | 50.9 | 15 | 2.82 | 23 | 37.4 | 14 |
| 19 | 29.51 | 19 | 47.8 | 17 | 23.25 | 25 | 95.2 | 22 | 40.75 | 37 | 49.4 | 19 | 2.59 | 19 | 36.0 | 17 |
| **März** 1 | 29.32 | 14 | 46.1 | 18 | 23.00 | 20 | 93.0 | 27 | 40.38 | 31 | 47.5 | 22 | 2.40 | 16 | 34.3 | 19 |
| 11 | 29.18 | 9 | 44.3 | 20 | 22.80 | 15 | 90.3 | 30 | 40.07 | 21 | 45.3 | 25 | 2.24 | 11 | 32.4 | 20 |
| 21 | 29.09 | 4 | 42.3 | 20 | 22.65 | 10 | 87.3 | 32 | 39.86 | 12 | 42.8 | 27 | 2.13 | 5 | 30.4 | 21 |
| 31 | 29.05 | 3 | 40.3 | 20 | 22.55 | 3 | 84.1 | 35 | 39.74 | 1 | 40.1 | 26 | 2.08 | 2 | 28.3 | 20 |
| **April** 10 | 29.08 | 10 | 38.3 | 19 | 22.52 | 5 | 80.6 | 40 | 39.73 | 12 | 37.5 | 28 | 2.10 | 10 | 26.3 | 21 |
| 20 | [15] 29.18 | 16 | 36.4 | 15 | [16] 22.57 | 11 | 76.6 | 36 | [16] 39.85 | 22 | 34.7 | 24 | [17] 2.20 | 16 | 24.2 | 16 |
| 30 | 29.34 | 23 | 34.9 | 12 | 22.68 | 19 | 73.0 | 37 | 40.07 | 33 | 32.3 | 20 | 2.36 | 22 | 22.6 | 13 |
| **Mai** 10 | 29.57 | 28 | 33.7 | 8 | 22.87 | 25 | 69.3 | 36 | 40.40 | 43 | 30.3 | 17 | 2.58 | 29 | 21.3 | 9 |
| 20 | 29.85 | 33 | 32.9 | 5 | 23.12 | 32 | 65.7 | 33 | 40.83 | 51 | 28.6 | 12 | 2.87 | 33 | 20.4 | 6 |
| 30 | 30.18 | 38 | 32.4 | 0 | 23.44 | 37 | 62.4 | 31 | 41.34 | 58 | 27.4 | 8 | 3.20 | 38 | 19.8 | 2 |
| **Juni** 9 | 30.56 | 40 | 32.4 | 4 | 23.81 | 41 | 59.3 | 28 | 41.92 | 63 | 26.6 | 3 | 3.58 | 42 | 19.6 | 3 |
| 19 | 30.96 | 43 | 32.8 | 8 | 24.22 | 46 | 56.5 | 24 | 42.55 | 66 | 26.3 | 2 | 4.00 | 44 | 19.9 | 7 |
| 29 | 31.39 | 43 | 33.6 | 12 | 24.68 | 48 | 54.1 | 19 | 43.21 | 68 | 26.5 | 7 | 4.44 | 45 | 20.6 | 11 |
| **Juli** 9 | 31.82 | 43 | 34.8 | 16 | 25.16 | 49 | 52.2 | 14 | 43.89 | 68 | 27.2 | 12 | 4.89 | 44 | 21.7 | 15 |
| 19 | 32.25 | 42 | 36.4 | 19 | 25.65 | 48 | 50.8 | 8 | 44.57 | 66 | 28.4 | 16 | 5.33 | 44 | 23.2 | 18 |
| 29 | 32.67 | 40 | 38.3 | 21 | 26.13 | 47 | 50.0 | 3 | 45.23 | 64 | 30.0 | 20 | 5.77 | 42 | 25.0 | 21 |
| **Aug.** 8 | 33.07 | 38 | 40.4 | 24 | 26.60 | 45 | 49.7 | 3 | 45.87 | 60 | 32.0 | 24 | 6.19 | 39 | 27.1 | 23 |
| 18 | 33.45 | 34 | 42.8 | 26 | 27.05 | 41 | 50.0 | 8 | 46.47 | 54 | 34.4 | 27 | 6.58 | 36 | 29.4 | 26 |
| 28 | 33.79 | 30 | 45.4 | 27 | 27.46 | 35 | 50.8 | 14 | 47.01 | 49 | 37.1 | 30 | 6.94 | 32 | 32.0 | 27 |
| **Sept.** 7 | 34.09 | 26 | 48.1 | 28 | 27.81 | 30 | 52.2 | 18 | 47.50 | 42 | 40.1 | 32 | 7.26 | 27 | 34.7 | 28 |
| 17 | 34.35 | 22 | 50.9 | 28 | 28.11 | 23 | 54.0 | 23 | 47.92 | 34 | 43.3 | 33 | 7.53 | 24 | 37.5 | 28 |
| 27 | 34.57 | 17 | 53.7 | 27 | 28.34 | 17 | 56.3 | 26 | 48.26 | 27 | 46.6 | 34 | 7.77 | 19 | 40.3 | 29 |
| **Okt.** 7 | 34.74 | 13 | 56.4 | 27 | 28.51 | 9 | 58.9 | 27 | 48.53 | 18 | 50.0 | 35 | 7.96 | 14 | 43.2 | 27 |
| 17 | 34.87 | 8 | 59.1 | 26 | 28.60 | 3 | 61.6 | 29 | 48.71 | 10 | 53.5 | 34 | 8.10 | 9 | 45.9 | 27 |
| 27 | 34.95 | 4 | 61.7 | 23 | 28.63 | 5 | 64.5 | 29 | 48.81 | 2 | 56.9 | 32 | 8.19 | 4 | 48.6 | 25 |
| **Nov.** 6 | 34.99 | 1 | 64.0 | 22 | 28.58 | 10 | 67.4 | 27 | 48.83 | 6 | 60.1 | 31 | 8.23 | 0 | 51.1 | 23 |
| 16 | 34.98 | 5 | 66.2 | 19 | 28.48 | 17 | 70.1 | 25 | 48.77 | 14 | 63.2 | 27 | 8.23 | 4 | 53.4 | 20 |
| 26 | 34.93 | 9 | 68.1 | 16 | 28.31 | 21 | 72.6 | 21 | 48.63 | 22 | 65.9 | 24 | 8.19 | 9 | 55.4 | 17 |
| **Dez.** 6 | 34.84 | 12 | 69.7 | 11 | 28.10 | 25 | 74.7 | 17 | 48.41 | 30 | 68.3 | 20 | 8.10 | 13 | 57.1 | 13 |
| 16 | 34.72 | 16 | 70.8 | 8 | 27.85 | 29 | 76.4 | 13 | 48.11 | 36 | 70.3 | 14 | 7.97 | 17 | 58.4 | 9 |
| 26 | 34.56 | 19 | 71.6 | 4 | 27.56 | 30 | 77.7 | 6 | 47.75 | 41 | 71.7 | 10 | 7.80 | 20 | 59.3 | 5 |
| 36 | 34.37 | | 72.0 | | 27.26 | | 78.3 | | 47.34 | | 72.7 | | 7.60 | | 59.8 | |
| Mittl. Ort | 31.34 | | 39.4 | | 24.09 | | 79.4 | | 43.97 | | 35.9 | | 4.47 | | 26.6 | |
| | | | 52) | | | | 54) | | | | 55) | | | | 57) | |

| 1911 | τ Ceti. 3m.4. AR. | | τ Ceti. Dekl. − | | o Piscium. 4m.3. AR. | | o Piscium. Dekl. + | |
|---|---|---|---|---|---|---|---|---|
| | 1h 39m | | 16° 23′ | | 1h 40m | | 8° 42′ | |
| Jan. 0 | 55.81 | 12 | 90.1 | 8 | 41.10 | 10 | 36.2 | 5 |
| 10 | 55.69 | 13 | 90.9 | 5 | 41.00 | 12 | 35.7 | 6 |
| 20 | 55.56 | 13 | 91.4 | 2 | 40.88 | 13 | 35.1 | 6 |
| 30 | 55.43 | 14 | 91.6 | 1 | 40.75 | 12 | 34.5 | 5 |
| Febr. 9 | 55.29 | 12 | 91.5 | 4 | 40.63 | 11 | 34.0 | 5 |
| 19 | 55.17 | 11 | 91.1 | 6 | 40.52 | 11 | 33.5 | 4 |
| März 1 | 55.06 | 9 | 90.5 | 9 | 40.41 | 8 | 33.1 | 3 |
| 11 | 54.97 | 6 | 89.6 | 12 | 40.33 | 5 | 32.8 | 2 |
| 21 | 54.91 | 3 | 88.4 | 15 | 40.28 | 2 | 32.6 | 0 |
| 31 | 54.88 | 1 | 86.9 | 17 | 40.26 | 3 | 32.6 | 3 |
| April 10 | 54.89 | 6 | 85.2 | 21 | 40.29 | 7 | 32.9 | 5 |
| 20 | [17] 54.95 | 10 | 83.1 | 22 | [17] 40.36 | 11 | 33.4 | 7 |
| 30 | 55.05 | 15 | 80.9 | 23 | 40.47 | 16 | 34.1 | 9 |
| Mai 10 | 55.20 | 20 | 78.6 | 24 | 40.63 | 20 | 35.0 | 12 |
| 20 | 55.40 | 22 | 76.2 | 26 | 40.83 | 24 | 36.2 | 14 |
| 30 | 55.62 | 26 | 73.6 | 25 | 41.07 | 28 | 37.6 | 16 |
| Juni 9 | 55.88 | 29 | 71.1 | 25 | 41.35 | 29 | 39.2 | 18 |
| 19 | 56.17 | 31 | 68.6 | 23 | 41.64 | 31 | 41.0 | 18 |
| 29 | 56.48 | 32 | 66.3 | 22 | 41.95 | 33 | 42.8 | 20 |
| Juli 9 | 56.80 | 32 | 64.1 | 20 | 42.28 | 32 | 44.8 | 19 |
| 19 | 57.12 | 32 | 62.1 | 17 | 42.60 | 31 | 46.7 | 19 |
| 29 | 57.44 | 30 | 60.4 | 14 | 42.91 | 31 | 48.6 | 18 |
| Aug. 8 | 57.74 | 29 | 59.0 | 10 | 43.22 | 28 | 50.4 | 17 |
| 18 | 58.03 | 26 | 58.0 | 6 | 43.50 | 26 | 52.1 | 16 |
| 28 | 58.29 | 23 | 57.4 | 3 | 43.76 | 23 | 53.7 | 13 |
| Sept. 7 | 58.52 | 20 | 57.1 | 1 | 43.99 | 20 | 55.0 | 11 |
| 17 | 58.72 | 17 | 57.2 | 4 | 44.19 | 17 | 56.1 | 9 |
| 27 | 58.89 | 13 | 57.6 | 7 | 44.36 | 14 | 57.0 | 7 |
| Okt. 7 | 59.02 | 10 | 58.3 | 10 | 44.50 | 11 | 57.7 | 5 |
| 17 | 59.12 | 6 | 59.3 | 12 | 44.61 | 8 | 58.2 | 3 |
| 27 | 59.18 | 3 | 60.5 | 14 | 44.69 | 4 | 58.5 | 1 |
| Nov. 6 | 59.21 | 0 | 61.9 | 13 | 44.73 | 2 | 58.6 | 1 |
| 16 | 59.21 | 3 | 63.2 | 14 | 44.75 | 0 | 58.5 | 2 |
| 26 | 59.18 | 5 | 64.6 | 14 | 44.75 | 4 | 58.3 | 3 |
| Dez. 6 | 59.13 | 8 | 66.0 | 12 | 44.71 | 5 | 58.0 | 4 |
| 16 | 59.05 | 10 | 67.2 | 10 | 44.66 | 8 | 57.6 | 5 |
| 26 | 58.95 | 11 | 68.2 | 8 | 44.58 | 9 | 57.1 | 5 |
| 36 | 58.84 | | 69.0 | | 44.49 | | 56.6 | |
| Mittl. Ort | 56.00 | | 81.5 | | 41.51 | | 36.4 | |
| | | 59) | | | | 60) | | |

| 1911 | Lac. ε Sculpt. 5m.3. AR. | | Lac. ε Sculpt. Dekl. − | | ζ Ceti. 3m.5. AR. | | ζ Ceti. Dekl. − | |
|---|---|---|---|---|---|---|---|---|
| | 1h 41m | | 25° 29′ | | 1h 47m | | 10° 46′ | |
| Jan. 0 | 28.56 | 14 | 61.8 | 8 | 3.80 | 11 | 34.6 | 8 |
| 10 | 28.42 | 14 | 62.6 | 4 | 3.69 | 12 | 35.4 | 5 |
| 20 | 28.28 | 15 | 63.0 | 1 | 3.57 | 13 | 35.9 | 4 |
| 30 | 28.13 | 14 | 63.1 | 3 | 3.44 | 13 | 36.3 | 1 |
| Febr. 9 | 27.99 | 14 | 62.8 | 6 | 3.31 | 12 | 36.4 | 1 |
| 19 | 27.85 | 12 | 62.2 | 10 | 3.19 | 11 | 36.3 | 4 |
| März 1 | 27.73 | 10 | 61.2 | 13 | 3.08 | 9 | 35.9 | 6 |
| 11 | 27.63 | 6 | 59.9 | 16 | 2.99 | 6 | 35.3 | 8 |
| 21 | 27.57 | 4 | 58.3 | 19 | 2.93 | 3 | 34.5 | 12 |
| 31 | 27.53 | 1 | 56.4 | 22 | 2.90 | 1 | 33.3 | 14 |
| April 10 | 27.54 | 6 | 54.2 | 26 | 2.91 | 6 | 31.9 | 17 |
| 20 | 27.60 | 10 | 51.6 | 26 | [19] 2.97 | 10 | 30.2 | 18 |
| 30 | 27.70 | 15 | 49.0 | 27 | 3.07 | 15 | 28.4 | 20 |
| Mai 10 | 27.85 | 20 | 46.3 | 28 | 3.22 | 19 | 26.4 | 22 |
| 20 | 28.05 | 23 | 43.5 | 28 | 3.41 | 22 | 24.2 | 22 |
| 30 | 28.28 | 27 | 40.7 | 27 | 3.63 | 26 | 22.0 | 24 |
| Juni 9 | 28.55 | 30 | 38.0 | 27 | 3.89 | 29 | 19.6 | 23 |
| 19 | 28.85 | 32 | 35.3 | 24 | 4.18 | 31 | 17.3 | 23 |
| 29 | 29.17 | 33 | 32.9 | 22 | 4.49 | 31 | 15.0 | 21 |
| Juli 9 | 29.50 | 34 | 30.7 | 19 | 4.80 | 32 | 12.9 | 20 |
| 19 | 29.84 | 33 | 28.8 | 15 | 5.12 | 32 | 10.9 | 17 |
| 29 | 30.17 | 33 | 27.3 | 12 | 5.44 | 30 | 9.2 | 15 |
| Aug. 8 | 30.50 | 30 | 26.1 | 7 | 5.74 | 29 | 7.7 | 12 |
| 18 | 30.80 | 27 | 25.4 | 3 | 6.03 | 26 | 6.5 | 9 |
| 28 | 31.07 | 25 | 25.1 | 1 | 6.29 | 24 | 5.6 | 5 |
| Sept. 7 | 31.32 | 21 | 25.2 | 6 | 6.53 | 21 | 5.1 | 1 |
| 17 | 31.53 | 17 | 25.8 | 9 | 6.74 | 17 | 5.0 | 1 |
| 27 | 31.70 | 14 | 26.7 | 12 | 6.91 | 14 | 5.1 | 4 |
| Okt. 7 | 31.84 | 10 | 27.9 | 15 | 7.05 | 11 | 5.5 | 7 |
| 17 | 31.94 | 7 | 29.4 | 17 | 7.16 | 8 | 6.2 | 9 |
| 27 | 32.01 | 2 | 31.1 | 18 | 7.24 | 4 | 7.1 | 11 |
| Nov. 6 | 32.03 | 0 | 32.9 | 18 | 7.28 | 1 | 8.2 | 12 |
| 16 | 32.03 | 3 | 34.7 | 18 | 7.29 | 1 | 9.4 | 12 |
| 26 | 32.00 | 6 | 36.5 | 17 | 7.28 | 4 | 10.6 | 11 |
| Dez. 6 | 31.94 | 9 | 38.2 | 14 | 7.24 | 6 | 11.7 | 11 |
| 16 | 31.85 | 11 | 39.6 | 12 | 7.18 | 8 | 12.8 | 10 |
| 26 | 31.74 | 13 | 40.8 | 10 | 7.10 | 10 | 13.8 | 8 |
| 36 | 31.61 | | 41.8 | | 7.00 | | 14.6 | |
| Mittl. Ort | 28.62 | | 50.5 | | 4.00 | | 28.1 | |
| | | 61) | | | | 62) | | |

| 1911 | ε Cassiopej. 3ᵐ.3. AR. | | Dekl. + | | α Trianguli. 3ᵐ.5. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|
| | 1ʰ 47ᵐ | | 63° 13′ | | 1ʰ 47ᵐ | | 29° 8′ | |
| Jan. 0 | 58ˢ.00 | 34 | 71″.2 | 6 | 59ˢ.73 | 12 | 50″.9 | 2 |
| 10 | 57.66 | 37 | 71.8 | 2 | 59.61 | 14 | 50.7 | 4 |
| 20 | 57.29 | 38 | 72.0 | 4 | 59.47 | 15 | 50.3 | 6 |
| 30 | 56.91 | 38 | 71.6 | 8 | 59.32 | 16 | 49.7 | 9 |
| Febr. 9 | 56.53 | 36 | 70.8 | 14 | 59.16 | 14 | 48.8 | 10 |
| 19 | 56.17 | 32 | 69.4 | 17 | 59.02 | 13 | 47.8 | 11 |
| März 1 | 55.85 | 26 | 67.7 | 21 | 58.89 | 11 | 46.7 | 11 |
| 11 | 55.59 | 20 | 65.6 | 23 | 58.78 | 7 | 45.6 | 12 |
| 21 | 55.39 | 12 | 63.3 | 25 | 58.71 | 4 | 44.4 | 11 |
| 31 | 55.27 | 2 | 60.8 | 25 | 58.67 | 2 | 43.3 | 10 |
| April 10 | 55.25 | 9 | 58.3 | 26 | 58.69 | 7 | 42.3 | 8 |
| 20 | 55.34 | 18 | 55.7 | 23 | 58.76 | 12 | 41.5 | 5 |
| 30 | 55.52 | 27 | 53.4 | 19 | 58.88 | 17 | 41.0 | 3 |
| Mai 10 | 55.79 | 35 | 51.5 | 16 | 59.05 | 22 | 40.7 | 1 |
| 20 | 56.14 | 43 | 49.9 | 12 | 59.27 | 26 | 40.8 | 3 |
| 30 | 56.57 | 49 | 48.7 | 8 | 59.53 | 30 | 41.1 | 7 |
| Juni 9 | 57.06 | 54 | 47.9 | 2 | 59.83 | 32 | 41.8 | 10 |
| 19 | 57.60 | 58 | 47.7 | 1 | 60.15 | 34 | 42.8 | 13 |
| 29 | 58.18 | 59 | 47.8 | 7 | 60.49 | 36 | 44.1 | 15 |
| Juli 9 | 58.77 | 59 | 48.5 | 11 | 60.85 | 35 | 45.6 | 17 |
| 19 | 59.36 | 59 | 49.6 | 15 | 61.20 | 35 | 47.3 | 18 |
| 29 | 59.95 | 57 | 51.1 | 19 | 61.55 | 34 | 49.1 | 20 |
| Aug. 8 | 60.52 | 53 | 53.0 | 23 | 61.89 | 31 | 51.1 | 20 |
| 18 | 61.05 | 49 | 55.3 | 26 | 62.20 | 29 | 53.1 | 21 |
| 28 | 61.54 | 44 | 57.9 | 28 | 62.49 | 26 | 55.2 | 21 |
| Sept. 7 | 61.98 | 39 | 60.7 | 30 | 62.75 | 23 | 57.3 | 20 |
| 17 | 62.37 | 33 | 63.7 | 32 | 62.98 | 20 | 59.3 | 19 |
| 27 | 62.70 | 26 | 66.9 | 32 | 63.18 | 16 | 61.2 | 18 |
| Okt. 7 | 62.96 | 20 | 70.1 | 33 | 63.34 | 13 | 63.0 | 17 |
| 17 | 63.16 | 13 | 73.4 | 32 | 63.47 | 9 | 64.7 | 15 |
| 27 | 63.29 | 5 | 76.6 | 30 | 63.56 | 6 | 66.2 | 13 |
| Nov. 6 | 63.34 | 1 | 79.6 | 30 | 63.62 | 3 | 67.5 | 11 |
| 16 | 63.33 | 8 | 82.6 | 26 | 63.65 | 0 | 68.6 | 10 |
| 26 | 63.25 | 15 | 85.2 | 23 | 63.65 | 4 | 69.6 | 7 |
| Dez. 6 | 63.10 | 21 | 87.5 | 19 | 63.61 | 6 | 70.3 | 4 |
| 16 | 62.89 | 26 | 89.4 | 15 | 63.55 | 9 | 70.7 | 2 |
| 26 | 62.63 | 32 | 90.9 | 10 | 63.46 | 12 | 70.9 | 0 |
| 36 | 62.31 | | 91.9 | | 63.34 | | 70.9 | |
| Mittl. Ort | 58.75 | | 56.1 | | 60.25 | | 44.2 | |
| | 63) | | | | 64) | | | |

| 1911 | ξ Piscium. 4ᵐ.6. AR. | | Dekl. + | | β Arietis. 2ᵐ.7. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|
| | 1ʰ 48ᵐ | | 2° 44′ | | 1ʰ 49ᵐ | | 20° 22′ | |
| Jan. 0 | 56ˢ.47 | 10 | 52″.4 | 6 | 42ˢ.77 | 11 | 28″.0 | 4 |
| 10 | 56.37 | 12 | 51.8 | 6 | 42.66 | 13 | 27.6 | 5 |
| 20 | 56.25 | 12 | 51.2 | 4 | 42.53 | 13 | 27.1 | 6 |
| 30 | 56.13 | 12 | 50.8 | 5 | 42.40 | 14 | 26.5 | 7 |
| Febr. 9 | 56.01 | 12 | 50.3 | 3 | 42.26 | 13 | 25.8 | 7 |
| 19 | 55.89 | 11 | 50.0 | 2 | 42.13 | 12 | 25.1 | 9 |
| März 1 | 55.78 | 8 | 49.8 | 0 | 42.01 | 10 | 24.2 | 8 |
| 11 | 55.70 | 7 | 49.8 | 1 | 41.91 | 6 | 23.4 | 7 |
| 21 | 55.63 | 2 | 49.9 | 4 | 41.85 | 3 | 22.7 | 7 |
| 31 | 55.61 | 1 | 50.3 | 6 | 41.82 | 1 | 22.0 | 4 |
| April 10 | 55.62 | 6 | 50.9 | 7 | 41.83 | 6 | 21.6 | 3 |
| 20 | 55.68 | 11 | 51.6 | 12 | 41.89 | 13 | 21.3 | 0 |
| 30 | 55.79 | 15 | 52.8 | 13 | 42.02 | 16 | 21.3 | 2 |
| Mai 10 | 55.94 | 19 | 54.1 | 15 | 42.18 | 20 | 21.5 | 6 |
| 20 | 56.13 | 23 | 55.6 | 17 | 42.38 | 24 | 22.1 | 8 |
| 30 | 56.36 | 26 | 57.3 | 18 | 42.62 | 28 | 22.9 | 10 |
| Juni 9 | 56.62 | 29 | 59.1 | 19 | 42.90 | 31 | 23.9 | 13 |
| 19 | 56.91 | 30 | 61.0 | 20 | 43.21 | 32 | 25.2 | 15 |
| 29 | 57.21 | 32 | 63.0 | 20 | 43.53 | 34 | 26.7 | 17 |
| Juli 9 | 57.53 | 32 | 65.0 | 19 | 43.87 | 34 | 28.4 | 18 |
| 19 | 57.85 | 32 | 66.9 | 19 | 44.21 | 33 | 30.2 | 19 |
| 29 | 58.17 | 30 | 68.8 | 17 | 44.54 | 31 | 32.1 | 19 |
| Aug. 8 | 58.47 | 28 | 70.5 | 16 | 44.85 | 30 | 34.0 | 19 |
| 18 | 58.75 | 26 | 72.1 | 13 | 45.15 | 28 | 35.9 | 19 |
| 28 | 59.01 | 24 | 73.4 | 10 | 45.43 | 25 | 37.8 | 17 |
| Sept. 7 | 59.25 | 21 | 74.4 | 9 | 45.68 | 22 | 39.5 | 16 |
| 17 | 59.46 | 17 | 75.3 | 6 | 45.90 | 19 | 41.1 | 16 |
| 27 | 59.63 | 15 | 75.9 | 3 | 46.09 | 15 | 42.7 | 13 |
| Okt. 7 | 59.78 | 11 | 76.2 | 1 | 46.24 | 12 | 44.0 | 11 |
| 17 | 59.89 | 8 | 76.3 | 1 | 46.36 | 9 | 45.1 | 10 |
| 27 | 59.97 | 6 | 76.2 | 3 | 46.45 | 6 | 46.1 | 8 |
| Nov. 6 | 60.03 | 2 | 75.9 | 4 | 46.51 | 3 | 46.9 | 6 |
| 16 | 60.05 | 0 | 75.5 | 5 | 46.54 | 0 | 47.5 | 5 |
| 26 | 60.05 | 3 | 75.0 | 6 | 46.54 | 2 | 48.0 | 2 |
| Dez. 6 | 60.02 | 5 | 74.4 | 6 | 46.52 | 6 | 48.2 | 1 |
| 16 | 59.97 | 7 | 73.8 | 7 | 46.46 | 7 | 48.3 | 1 |
| 26 | 59.90 | 9 | 73.1 | 6 | 46.39 | 10 | 48.2 | 2 |
| 36 | 59.81 | | 72.5 | | 46.29 | | 48.0 | |
| Mittl. Ort | 56.79 | | 54.4 | | 43.21 | | 24.0 | |
| | 65) | | | | 66) | | | |

| 1911 | ψ Phoenicis. $4^m.5$. | | | | γ Eridani. $3^m.6$. | | | | 50 Cassiopej. $4^m.0$. | | | | ν Ceti. $3^m.9$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. — | | AR. | | Dekl. — | | AR. | | Dekl. + | | AR. | | Dekl. — | |
| | $1^h\ 50^m$ | | 46° 43′ | | $1^h\ 52^m$ | | 52° 2′ | | $1^h\ 55^m$ | | 71° 59′ | | $1^h\ 55^m$ | | 21° 30′ | |
| Jan. 0 | 5.15 | 21 | 94.9 | 7 | 30.28 | 25 | 84.0 | 7 | 47.96 | 54 | 44.6 | 11 | 48.66 | 12 | 41.1 | 8 |
| 10 | 4.94 | 23 | 95.6 | 3 | 30.03 | 27 | 84.7 | 2 | 47.42 | 59 | 45.7 | 5 | 48.54 | 14 | 41.9 | 6 |
| 20 | 4.71 | 23 | 95.9 | 3 | 29.76 | 27 | 84.9 | 4 | 46.83 | 60 | 46.2 | 1 | 48.40 | 14 | 42.5 | 2 |
| 30 | 4.48 | 23 | 95.6 | 8 | 29.49 | 26 | 84.5 | 9 | 46.23 | 61 | 46.1 | 7 | 48.26 | 14 | 42.7 | 1 |
| Febr. 9 | 4.25 | 22 | 94.8 | 13 | 29.23 | 25 | 83.6 | 15 | 45.62 | 57 | 45.4 | 13 | 48.12 | 14 | 42.6 | 4 |
| 19 | 4.03 | 20 | 93.5 | 17 | 28.98 | 23 | 82.1 | 19 | 45.05 | 51 | 44.1 | 17 | 47.98 | 13 | 42.2 | 8 |
| März 1 | 3.83 | 17 | 91.8 | 22 | 28.75 | 19 | 80.2 | 23 | 44.54 | 44 | 42.4 | 21 | 47.85 | 10 | 41.4 | 10 |
| 11 | 3.66 | 12 | 89.6 | 25 | 28.56 | 16 | 77.9 | 27 | 44.10 | 33 | 40.3 | 24 | 47.75 | 8 | 40.4 | 14 |
| 21 | 3.54 | 8 | 87.1 | 28 | 28.40 | 10 | 75.2 | 30 | 43.77 | 21 | 37.9 | 26 | 47.67 | 4 | 39.0 | 17 |
| 31 | 3.46 | 3 | 84.3 | 31 | 28.30 | 5 | 72.2 | 33 | 43.56 | 8 | 35.3 | 27 | 47.63 | 1 | 37.3 | 19 |
| April 10 | 3.43 | 2 | 81.2 | 33 | 28.25 | 2 | 68.9 | 34 | 43.48 | 5 | 32.6 | 27 | 47.62 | 4 | 35.4 | 22 |
| 20 | [20] 3.45 | 9 | 77.9 | 37 | [20] 28.27 | 9 | 65.5 | 39 | [21] 43.53 | 22 | 29.9 | 28 | [21] 47.66 | 10 | 33.2 | 26 |
| 30 | 3.54 | 15 | 74.2 | 34 | 28.36 | 14 | 61.6 | 36 | 43.75 | 34 | 27.1 | 23 | 47.76 | 13 | 30.6 | 25 |
| Mai 10 | 3.69 | 20 | 70.8 | 35 | 28.50 | 20 | 58.0 | 35 | 44.09 | 46 | 24.8 | 20 | 47.89 | 18 | 28.1 | 26 |
| 20 | 3.89 | 25 | 67.3 | 33 | 28.70 | 28 | 54.5 | 34 | 44.55 | 56 | 22.8 | 16 | 48.07 | 22 | 25.5 | 27 |
| 30 | 4.14 | 30 | 64.0 | 31 | 28.98 | 32 | 51.1 | 33 | 45.11 | 66 | 21.2 | 12 | 48.29 | 25 | 22.8 | 27 |
| Juni 9 | 4.44 | 34 | 60.9 | 29 | 29.30 | 36 | 47.8 | 29 | 45.77 | 73 | 20.0 | 7 | 48.54 | 29 | 20.1 | 26 |
| 19 | 4.78 | 37 | 58.0 | 26 | 29.66 | 39 | 44.9 | 26 | 46.50 | 78 | 19.3 | 2 | 48.83 | 30 | 17.5 | 24 |
| 29 | 5.15 | 39 | 55.4 | 22 | 30.05 | 43 | 42.3 | 21 | 47.28 | 81 | 19.1 | 3 | 49.13 | 33 | 15.1 | 22 |
| Juli 9 | 5.54 | 40 | 53.2 | 17 | 30.48 | 43 | 40.2 | 17 | 48.09 | 82 | 19.4 | 9 | 49.46 | 33 | 12.9 | 20 |
| 19 | 5.94 | 41 | 51.5 | 13 | 30.91 | 44 | 38.5 | 12 | 48.91 | 82 | 20.3 | 12 | 49.79 | 33 | 10.9 | 17 |
| 29 | 6.35 | 39 | 50.2 | 7 | 31.35 | 43 | 37.3 | 6 | 49.73 | 80 | 21.5 | 18 | 50.12 | 32 | 9.2 | 13 |
| Aug. 8 | 6.74 | 37 | 49.5 | 1 | 31.78 | 41 | 36.7 | 1 | 50.53 | 75 | 23.3 | 21 | 50.44 | 30 | 7.9 | 9 |
| 18 | 7.11 | 35 | 49.4 | 3 | 32.19 | 37 | 36.6 | 5 | 51.28 | 70 | 25.4 | 25 | 50.74 | 28 | 7.0 | 6 |
| 28 | 7.46 | 30 | 49.7 | 9 | 32.56 | 34 | 37.1 | 11 | 51.98 | 63 | 27.9 | 28 | 51.02 | 25 | 6.4 | 1 |
| Sept. 7 | 7.76 | 27 | 50.6 | 14 | 32.90 | 29 | 38.2 | 15 | 52.61 | 56 | 30.7 | 30 | 51.27 | 22 | 6.3 | 4 |
| 17 | 8.03 | 21 | 52.0 | 18 | 33.19 | 24 | 39.7 | 20 | 53.17 | 47 | 33.7 | 33 | 51.49 | 18 | 6.7 | 7 |
| 27 | 8.24 | 17 | 53.8 | 22 | 33.43 | 18 | 41.7 | 23 | 53.64 | 39 | 37.0 | 34 | 51.67 | 15 | 7.4 | 10 |
| Okt. 7 | 8.41 | 11 | 56.0 | 24 | 33.61 | 12 | 44.0 | 26 | 54.03 | 28 | 40.4 | 35 | 51.82 | 12 | 8.4 | 13 |
| 17 | 8.52 | 6 | 58.4 | 26 | 33.73 | 7 | 46.6 | 28 | 54.31 | 18 | 43.9 | 35 | 51.94 | 8 | 9.7 | 15 |
| 27 | 8.58 | 1 | 61.0 | 27 | 33.80 | 0 | 49.4 | 28 | 54.49 | 8 | 47.4 | 35 | 52.02 | 4 | 11.2 | 16 |
| Nov. 6 | 8.59 | 4 | 63.7 | 26 | 33.80 | 5 | 52.2 | 27 | 54.57 | 3 | 50.9 | 32 | 52.06 | 2 | 12.8 | 17 |
| 16 | 8.55 | 8 | 66.3 | 24 | 33.75 | 10 | 54.9 | 25 | 54.54 | 14 | 54.1 | 30 | 52.08 | 2 | 14.5 | 17 |
| 26 | 8.47 | 13 | 68.7 | 22 | 33.65 | 15 | 57.4 | 23 | 54.40 | 24 | 57.1 | 27 | 52.06 | 5 | 16.2 | 16 |
| Dez. 6 | 8.34 | 15 | 70.9 | 19 | 33.50 | 19 | 59.7 | 19 | 54.16 | 34 | 59.8 | 23 | 52.01 | 7 | 17.8 | 15 |
| 16 | 8.19 | 19 | 72.8 | 14 | 33.31 | 22 | 61.6 | 15 | 53.82 | 42 | 62.1 | 18 | 51.94 | 9 | 19.3 | 12 |
| 26 | 8.00 | 21 | 74.2 | 10 | 33.09 | 25 | 63.1 | 9 | 53.40 | 49 | 63.9 | 13 | 51.85 | 12 | 20.5 | 10 |
| 36 | 7.79 | | 75.2 | | 32.84 | | 64.0 | | 52.91 | | 65.2 | | 51.73 | | 21.5 | |
| Mittl. Ort | 4.72 | | 78.4 | | 29.64 | | 66.6 | | 48.67 | | 28.3 | | 48.69 | | 31.5 | |
| | 67) | | | | 68) | | | | 70) | | | | 71) | | | |

| 1911 | α Hydri. 2ᵐ.9. AR. | Δ | Dekl. — | Δ | γ Andromed. 2ᵐ.1. AR. | Δ | Dekl. + | Δ |
|---|---|---|---|---|---|---|---|---|
| | 1ʰ 55ᵐ | | 61° 59′ | | 1ʰ 58ᵐ | | 41° 54′ | |
| Jan. 0 | 59ˢ.11 | 37 | 88″.7 | 6 | 25ˢ.30 | 16 | 21″.4 | 2 |
| 10 | 58.74 | 40 | 89.3 | 1 | 25.14 | 18 | 21.6 | 1 |
| 20 | 58.34 | 39 | 89.4 | 6 | 24.96 | 19 | 21.5 | 5 |
| 30 | 57.95 | 38 | 88.8 | 11 | 24.77 | 20 | 21.0 | 8 |
| Febr. 9 | 57.57 | 36 | 87.7 | 17 | 24.57 | 19 | 20.2 | 11 |
| 19 | 57.21 | 33 | 86.0 | 22 | 24.38 | 17 | 19.1 | 14 |
| März 1 | 56.88 | 28 | 83.8 | 25 | 24.21 | 15 | 17.7 | 15 |
| 11 | 56.60 | 23 | 81.3 | 30 | 24.06 | 11 | 16.2 | 16 |
| 21 | 56.37 | 17 | 78.3 | 32 | 23.95 | 5 | 14.6 | 17 |
| 31 | 56.20 | 9 | 75.1 | 35 | 23.90 | 1 | 12.9 | 16 |
| April 10 | 56.11 | 2 | 71.6 | 37 | 23.89 | 5 | 11.3 | 15 |
| 20 | 56.09 | 7 | 67.9 | 41 | 23.94 | 13 | 9.8 | 14 |
| 30 | [21] 56.16 | 15 | 63.8 | 38 | [22] 24.07 | 18 | 8.4 | 9 |
| Mai 10 | 56.31 | 23 | 60.0 | 36 | 24.25 | 24 | 7.5 | 7 |
| 20 | 56.54 | 30 | 56.4 | 35 | 24.49 | 29 | 6.8 | 3 |
| 30 | 56.84 | 37 | 52.9 | 33 | 24.78 | 32 | 6.5 | 0 |
| Juni 9 | 57.21 | 43 | 49.6 | 29 | 25.10 | 36 | 6.5 | 4 |
| 19 | 57.64 | 47 | 46.7 | 26 | 25.46 | 39 | 6.9 | 7 |
| 29 | 58.11 | 51 | 44.1 | 21 | 25.85 | 39 | 7.6 | 11 |
| Juli 9 | 58.62 | 54 | 42.0 | 15 | 26.24 | 40 | 8.7 | 14 |
| 19 | 59.16 | 53 | 40.5 | 10 | 26.64 | 40 | 10.1 | 17 |
| 29 | 59.69 | 53 | 39.5 | 4 | 27.04 | 38 | 11.8 | 19 |
| Aug. 8 | 60.22 | 51 | 39.1 | 1 | 27.42 | 37 | 13.7 | 21 |
| 18 | 60.73 | 47 | 39.2 | 8 | 27.79 | 33 | 15.8 | 23 |
| 28 | 61.20 | 43 | 40.0 | 13 | 28.12 | 31 | 18.1 | 23 |
| Sept. 7 | 61.63 | 36 | 41.3 | 18 | 28.43 | 27 | 20.4 | 25 |
| 17 | 61.99 | 29 | 43.1 | 22 | 28.70 | 24 | 22.9 | 24 |
| 27 | 62.28 | 22 | 45.3 | 26 | 28.94 | 19 | 25.3 | 24 |
| Okt. 7 | 62.50 | 14 | 47.9 | 29 | 29.13 | 16 | 27.7 | 23 |
| 17 | 62.64 | 5 | 50.8 | 30 | 29.29 | 11 | 30.0 | 22 |
| 27 | 62.69 | 2 | 53.8 | 30 | 29.40 | 8 | 32.2 | 20 |
| Nov. 6 | 62.67 | 10 | 56.8 | 29 | 29.48 | 4 | 34.2 | 19 |
| 16 | 62.57 | 17 | 59.7 | 27 | 29.52 | 0 | 36.1 | 16 |
| 26 | 62.40 | 23 | 62.4 | 24 | 29.52 | 4 | 37.7 | 14 |
| Dez. 6 | 62.17 | 29 | 64.8 | 19 | 29.48 | 8 | 39.1 | 11 |
| 16 | 61.88 | 33 | 66.7 | 15 | 29.40 | 11 | 40.2 | 8 |
| 26 | 61.55 | 36 | 68.2 | 9 | 29.29 | 15 | 41.0 | 4 |
| 36 | 61.19 | | 69.1 | | 29.14 | | 41.4 | |
| Mittl. Ort | 57.90 | | 69.9 | | 25.82 | | 10.9 | |
| | 72) | | | | 73) | | | |

| 1911 | α Arietis. 2ᵐ.0. AR. | Δ | Dekl. + | Δ | β Trianguli. 3ᵐ.0. AR. | Δ | Dekl. + | Δ |
|---|---|---|---|---|---|---|---|---|
| | 2ʰ 2ᵐ | | 23° 2′ | | 2ʰ 4ᵐ | | 34° 33′ | |
| Jan. 0 | 8ˢ.77 | 11 | 36″.3 | 2 | 14ˢ.13 | 13 | 68″.8 | 1 |
| 10 | 8.66 | 13 | 36.1 | 4 | 14.00 | 16 | 68.9 | 2 |
| 20 | 8.53 | 14 | 35.7 | 5 | 13.84 | 16 | 68.7 | 5 |
| 30 | 8.39 | 14 | 35.2 | 7 | 13.68 | 17 | 68.2 | 7 |
| Febr. 9 | 8.25 | 14 | 34.5 | 8 | 13.51 | 17 | 67.5 | 10 |
| 19 | 8.11 | 13 | 33.7 | 8 | 13.34 | 15 | 66.5 | 12 |
| März 1 | 7.98 | 11 | 32.9 | 9 | 13.19 | 14 | 65.3 | 12 |
| 11 | 7.87 | 8 | 32.0 | 8 | 13.05 | 9 | 64.1 | 13 |
| 21 | 7.79 | 4 | 31.2 | 8 | 12.96 | 6 | 62.8 | 14 |
| 31 | 7.75 | 0 | 30.4 | 6 | 12.90 | 0 | 61.4 | 12 |
| April 10 | 7.75 | 5 | 29.8 | 4 | 12.90 | 5 | 60.2 | 11 |
| 20 | 7.80 | 11 | 29.4 | 3 | 12.95 | 11 | 59.1 | 9 |
| 30 | [23] 7.91 | 15 | 29.1 | 1 | [21] 13.06 | 16 | 58.2 | 6 |
| Mai 10 | 8.06 | 20 | 29.2 | 3 | 13.22 | 22 | 57.6 | 4 |
| 20 | 8.26 | 23 | 29.5 | 6 | 13.44 | 26 | 57.2 | 1 |
| 30 | 8.49 | 28 | 30.1 | 9 | 13.70 | 30 | 57.3 | 3 |
| Juni 9 | 8.77 | 31 | 31.0 | 11 | 14.00 | 33 | 57.6 | 6 |
| 19 | 9.08 | 32 | 32.1 | 14 | 14.33 | 35 | 58.2 | 10 |
| 29 | 9.40 | 34 | 33.5 | 16 | 14.68 | 37 | 59.2 | 12 |
| Juli 9 | 9.74 | 34 | 35.1 | 16 | 15.05 | 37 | 60.4 | 15 |
| 19 | 10.08 | 34 | 36.7 | 18 | 15.42 | 37 | 61.9 | 17 |
| 29 | 10.42 | 33 | 38.5 | 19 | 15.79 | 35 | 63.6 | 19 |
| Aug. 8 | 10.75 | 31 | 40.4 | 19 | 16.14 | 34 | 65.5 | 20 |
| 18 | 11.06 | 29 | 42.3 | 18 | 16.48 | 32 | 67.5 | 21 |
| 28 | 11.35 | 26 | 44.1 | 18 | 16.80 | 29 | 69.6 | 21 |
| Sept. 7 | 11.61 | 23 | 45.9 | 17 | 17.09 | 25 | 71.7 | 21 |
| 17 | 11.84 | 20 | 47.6 | 16 | 17.34 | 23 | 73.8 | 21 |
| 27 | 12.04 | 17 | 49.2 | 14 | 17.57 | 19 | 75.9 | 20 |
| Okt. 7 | 12.21 | 14 | 50.6 | 13 | 17.76 | 15 | 77.9 | 19 |
| 17 | 12.35 | 11 | 51.9 | 11 | 17.91 | 12 | 79.8 | 18 |
| 27 | 12.46 | 7 | 53.0 | 9 | 18.03 | 8 | 81.6 | 17 |
| Nov. 6 | 12.53 | 5 | 53.9 | 8 | 18.11 | 5 | 83.3 | 14 |
| 16 | 12.58 | 1 | 54.7 | 6 | 18.16 | 1 | 84.7 | 13 |
| 26 | 12.59 | 2 | 55.3 | 4 | 18.17 | 2 | 86.0 | 10 |
| Dez. 6 | 12.57 | 4 | 55.7 | 3 | 18.15 | 6 | 87.0 | 8 |
| 16 | 12.53 | 7 | 56.0 | 0 | 18.09 | 9 | 87.8 | 5 |
| 26 | 12.46 | 10 | 56.0 | 1 | 18.00 | 11 | 88.3 | 2 |
| 36 | 12.36 | | 55.9 | | 17.89 | | 88.5 | |
| Mittl. Ort | 9.16 | | 31.3 | | 14.57 | | 60.3 | |
| | 74) | | | | 75) | | | |

| 1911 | 55 Cassiopej. 6m.3. AR. | | Dekl. + | | Lac. μ Forn. 5m.2. AR. | | Dekl. — | | 67 Ceti. 5m.8. AR. | | Dekl. — | | ξ² Ceti. 4m.2. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2h 7m | | 66° 6′ | | 2h 8m | | 31° 8′ | | 2h 12m | | 6° 49′ | | 2h 23m | | 8° 3′ | |
| Jan. 0 | 28.43 | 37 | 43.9 | 10 | 59.56 | 15 | 39.4 | 10 | 32.49 | 10 | 59.3 | 7 | 25.33 | 9 | 42.4 | 5 |
| 10 | 28.06 | 41 | 44.9 | 4 | 59.41 | 16 | 40.4 | 6 | 32.39 | 12 | 60.0 | 7 | 25.24 | 11 | 41.9 | 5 |
| 20 | 27.65 | 44 | 45.3 | 0 | 59.25 | 17 | 41.0 | 1 | 32.27 | 12 | 60.7 | 5 | 25.13 | 13 | 41.4 | 5 |
| 30 | 27.21 | 44 | 45.3 | 6 | 59.08 | 17 | 41.1 | 2 | 32.15 | 14 | 61.2 | 2 | 25.00 | 14 | 40.9 | 5 |
| Febr. 9 | 26.77 | 42 | 44.7 | 11 | 58.91 | 17 | 40.9 | 6 | 32.01 | 13 | 61.4 | 1 | 24.86 | 13 | 40.4 | 4 |
| 19 | 26.35 | 39 | 43.6 | 16 | 58.74 | 15 | 40.3 | 11 | 31.88 | 12 | 61.5 | 1 | 24.73 | 13 | 40.0 | 3 |
| März 1 | 25.96 | 34 | 42.0 | 20 | 58.59 | 14 | 39.2 | 14 | 31.76 | 11 | 61.4 | 4 | 24.60 | 11 | 39.7 | 3 |
| 11 | 25.62 | 26 | 40.0 | 22 | 58.45 | 10 | 37.8 | 17 | 31.65 | 8 | 61.0 | 7 | 24.49 | 9 | 39.4 | 1 |
| 21 | 25.36 | 17 | 37.8 | 24 | 58.35 | 7 | 36.1 | 21 | 31.57 | 5 | 60.3 | 8 | 24.40 | 5 | 39.3 | 1 |
| 31 | 25.19 | 7 | 35.4 | 25 | 58.28 | 3 | 34.0 | 24 | 31.52 | 1 | 59.5 | 11 | 24.35 | 2 | 39.4 | 2 |
| April 10 | 25.12 | 3 | 32.9 | 26 | 58.25 | 1 | 31.6 | 26 | 31.51 | 2 | 58.4 | 13 | 24.33 | 2 | 39.6 | 5 |
| 20 | 25.15 | 16 | 30.3 | 26 | 58.26 | 7 | 29.0 | 31 | 31.53 | 9 | 57.1 | 17 | 24.35 | 8 | 40.1 | 7 |
| 30 | [24] 25.31 | 25 | 27.7 | 21 | [25] 58.33 | 12 | 25.9 | 29 | [26] 31.62 | 12 | 55.4 | 18 | [29] 24.43 | 12 | 40.8 | 9 |
| Mai 10 | 25.56 | 35 | 25.6 | 18 | 58.45 | 17 | 23.0 | 30 | 31.74 | 17 | 53.6 | 19 | 24.55 | 16 | 41.7 | 11 |
| 20 | 25.91 | 43 | 23.8 | 15 | 58.62 | 21 | 20.0 | 30 | 31.91 | 20 | 51.7 | 21 | 24.71 | 21 | 42.8 | 13 |
| 30 | 26.34 | 52 | 22.3 | 11 | 58.83 | 25 | 17.0 | 30 | 32.11 | 24 | 49.6 | 21 | 24.92 | 24 | 44.1 | 15 |
| Juni 9 | 26.86 | 57 | 21.2 | 6 | 59.08 | 28 | 14.0 | 28 | 32.35 | 27 | 47.5 | 22 | 25.16 | 27 | 45.6 | 17 |
| 19 | 27.43 | 61 | 20.6 | 2 | 59.36 | 32 | 11.2 | 26 | 32.62 | 30 | 45.3 | 22 | 25.43 | 30 | 47.3 | 17 |
| 29 | 28.04 | 65 | 20.4 | 3 | 59.68 | 33 | 8.6 | 22 | 32.92 | 31 | 43.1 | 21 | 25.73 | 31 | 49.0 | 19 |
| Juli 9 | 28.69 | 65 | 20.7 | 8 | 60.01 | 34 | 6.4 | 21 | 33.23 | 31 | 41.0 | 21 | 26.04 | 32 | 50.9 | 18 |
| 19 | 29.34 | 65 | 21.5 | 13 | 60.35 | 35 | 4.3 | 17 | 33.54 | 32 | 38.9 | 18 | 26.36 | 32 | 52.7 | 17 |
| 29 | 29.99 | 64 | 22.8 | 16 | 60.70 | 34 | 2.6 | 12 | 33.86 | 31 | 37.1 | 16 | 26.68 | 31 | 54.4 | 17 |
| Aug. 8 | 30.63 | 61 | 24.4 | 20 | 61.04 | 32 | 1.4 | 7 | 34.17 | 29 | 35.5 | 13 | 26.99 | 30 | 56.1 | 16 |
| 18 | 31.24 | 58 | 26.4 | 23 | 61.36 | 30 | 0.7 | 3 | 34.46 | 27 | 34.2 | 10 | 27.29 | 28 | 57.7 | 14 |
| 28 | 31.82 | 52 | 28.7 | 27 | 61.66 | 27 | 0.4 | 2 | 34.73 | 25 | 33.2 | 7 | 27.57 | 26 | 59.1 | 13 |
| Sept. 7 | 32.34 | 46 | 31.4 | 29 | 61.93 | 25 | 0.6 | 7 | 34.98 | 23 | 32.5 | 4 | 27.83 | 24 | 60.4 | 10 |
| 17 | 32.80 | 40 | 34.3 | 31 | 62.18 | 20 | 1.3 | 11 | 35.21 | 19 | 32.1 | 1 | 28.07 | 21 | 61.4 | 8 |
| 27 | 33.20 | 34 | 37.4 | 32 | 62.38 | 17 | 2.4 | 14 | 35.40 | 17 | 32.0 | 3 | 28.28 | 18 | 62.2 | 6 |
| Okt. 7 | 33.54 | 27 | 40.6 | 32 | 62.55 | 13 | 3.8 | 18 | 35.57 | 14 | 32.3 | 5 | 28.46 | 15 | 62.8 | 3 |
| 17 | 33.81 | 19 | 43.8 | 33 | 62.68 | 9 | 5.6 | 20 | 35.71 | 10 | 32.8 | 7 | 28.61 | 12 | 63.1 | 2 |
| 27 | 34.00 | 11 | 47.1 | 32 | 62.77 | 4 | 7.6 | 21 | 35.81 | 7 | 33.5 | 9 | 28.73 | 9 | 63.3 | 0 |
| Nov. 6 | 34.11 | 3 | 50.3 | 30 | 62.81 | 3 | 9.7 | 22 | 35.88 | 4 | 34.4 | 10 | 28.82 | 6 | 63.3 | 2 |
| 16 | 34.14 | 5 | 53.3 | 29 | 62.84 | 2 | 11.9 | 21 | 35.92 | 1 | 35.4 | 11 | 28.88 | 3 | 63.1 | 3 |
| 26 | 34.09 | 14 | 56.2 | 25 | 62.82 | 6 | 14.0 | 20 | 35.93 | 1 | 36.5 | 11 | 28.91 | 0 | 62.8 | 3 |
| Dez. 6 | 33.95 | 21 | 58.7 | 22 | 62.76 | 8 | 16.0 | 18 | 35.92 | 4 | 37.6 | 10 | 28.91 | 2 | 62.5 | 5 |
| 16 | 33.74 | 27 | 60.9 | 18 | 62.68 | 11 | 17.8 | 15 | 35.88 | 7 | 38.6 | 10 | 28.89 | 6 | 62.0 | 5 |
| 26 | 33.47 | 34 | 62.7 | 12 | 62.57 | 12 | 19.3 | 11 | 35.81 | 9 | 39.6 | 8 | 28.83 | 7 | 61.5 | 5 |
| 36 | 33.13 | | 63.9 | | 62.45 | | 20.4 | | 35.72 | | 40.4 | | 28.76 | | 61.0 | |
| Mittl. Ort | 28.95 | | 28.2 | | 59.35 | | 27.7 | | 32.59 | | 55.0 | | 25.50 | | 41.7 | |
| | | | 76) | | | | 78) | | | | 80) | | | | 85) | |

| 1911 | 36 H. Cassiop. 5m.4 AR. | | Dekl. + | | μ Hydri. 5m.5 AR. | | Dekl. — | | ν Arietis. 5m.6 AR. | | Dekl. + | | δ Ceti. 3m.9 AR. | | Dekl. — | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2h 29m | | 72° 25′ | | 2h 33m | | 79° 29′ | | 2h 33m | | 21° 34′ | | 2h 34m | | 0° 2′ | |
| Jan. 0 | 32.63 | 50 | 63.7 | 14 | 37.72 | 114 | 69.8 | 8 | 45.36 | 10 | 42.5 | 1 | 55.10 | 9 | 79.4 | 7 |
| 10 | 32.13 | 56 | 65.1 | 9 | 36.58 | 120 | 70.6 | 3 | 45.26 | 12 | 42.4 | 3 | 55.01 | 11 | 80.1 | 6 |
| 20 | 31.57 | 61 | 66.0 | 3 | 35.38 | 123 | 70.9 | 4 | 45.14 | 13 | 42.1 | 4 | 54.90 | 13 | 80.7 | 5 |
| 30 | 30.96 | 63 | 66.3 | 3 | 34.15 | 122 | 70.5 | 10 | 45.01 | 15 | 41.7 | 5 | 54.77 | 13 | 81.2 | 4 |
| Febr. 9 | 30.33 | 61 | 66.0 | 8 | 32.93 | 118 | 69.5 | 15 | 44.86 | 15 | 41.2 | 6 | 54.64 | 14 | 81.6 | 2 |
| 19 | 29.72 | 58 | 65.2 | 13 | 31.75 | 111 | 68.0 | 20 | 44.71 | 15 | 40.6 | 7 | 54.50 | 13 | 81.8 | 1 |
| März 1 | 29.14 | 51 | 63.9 | 17 | 30.64 | 101 | 66.0 | 26 | 44.56 | 13 | 39.9 | 6 | 54.37 | 12 | 81.9 | 0 |
| 11 | 28.63 | 42 | 62.2 | 22 | 29.63 | 89 | 63.4 | 29 | 44.43 | 10 | 39.3 | 7 | 54.25 | 10 | 81.9 | 3 |
| 21 | 28.21 | 31 | 60.0 | 24 | 28.74 | 74 | 60.5 | 32 | 44.33 | 7 | 38.6 | 6 | 54.15 | 6 | 81.6 | 5 |
| 31 | 27.90 | 18 | 57.6 | 26 | 28.00 | 57 | 57.3 | 35 | 44.26 | 3 | 38.0 | 6 | 54.09 | 4 | 81.1 | 7 |
| April 10 | 27.72 | 4 | 55.0 | 26 | 27.43 | 40 | 53.8 | 37 | 44.23 | 1 | 37.4 | 3 | 54.05 | 1 | 80.4 | 8 |
| 20 | 27.68 | 10 | 52.4 | 27 | 27.03 | 21 | 50.1 | 38 | 44.24 | 7 | 37.1 | 2 | 54.06 | 6 | 79.6 | 12 |
| 30 | 27.78 | 27 | 49.7 | 27 | 26.82 | 0 | 46.3 | 42 | 44.31 | 13 | 36.9 | 1 | 54.12 | 11 | 78.4 | 14 |
| Mai 10 | [30]28.05 | 38 | 47.0 | 22 | [1]26.82 | 20 | 42.1 | 37 | [1]44.44 | 16 | 37.0 | 3 | [2]54.23 | 15 | 77.0 | 16 |
| 20 | 28.43 | 50 | 44.8 | 19 | 27.02 | 39 | 38.4 | 35 | 44.60 | 21 | 37.3 | 5 | 54.38 | 19 | 75.4 | 17 |
| 30 | 28.93 | 61 | 42.9 | 15 | 27.41 | 58 | 34.9 | 34 | 44.81 | 26 | 37.8 | 8 | 54.57 | 23 | 73.7 | 18 |
| Juni 9 | 29.54 | 70 | 41.4 | 11 | 27.99 | 75 | 31.5 | 30 | 45.07 | 28 | 38.6 | 10 | 54.80 | 26 | 71.9 | 19 |
| 19 | 30.24 | 77 | 40.3 | 6 | 28.74 | 89 | 28.5 | 27 | 45.35 | 31 | 39.6 | 12 | 55.06 | 28 | 70.0 | 20 |
| 29 | 31.01 | 81 | 39.7 | 2 | 29.63 | 102 | 25.8 | 22 | 45.66 | 32 | 40.8 | 14 | 55.34 | 30 | 68.0 | 20 |
| Juli 9 | 31.82 | 85 | 39.5 | 3 | 30.65 | 111 | 23.6 | 17 | 45.98 | 34 | 42.2 | 15 | 55.64 | 31 | 66.0 | 19 |
| 19 | 32.67 | 86 | 39.8 | 8 | 31.76 | 118 | 21.9 | 11 | 46.32 | 34 | 43.7 | 17 | 55.95 | 32 | 64.1 | 19 |
| 29 | 33.53 | 85 | 40.6 | 13 | 32.94 | 121 | 20.8 | 6 | 46.66 | 33 | 45.4 | 17 | 56.27 | 31 | 62.2 | 16 |
| Aug. 8 | 34.38 | 82 | 41.9 | 17 | 34.15 | 119 | 20.2 | 1 | 46.99 | 32 | 47.1 | 17 | 56.58 | 30 | 60.6 | 15 |
| 18 | 35.20 | 78 | 43.6 | 20 | 35.34 | 116 | 20.3 | 7 | 47.31 | 30 | 48.8 | 16 | 56.88 | 28 | 59.1 | 12 |
| 28 | 35.98 | 73 | 45.6 | 25 | 36.50 | 106 | 21.0 | 12 | 47.61 | 28 | 50.4 | 16 | 57.16 | 26 | 57.9 | 9 |
| Sept. 7 | 36.71 | 67 | 48.1 | 27 | 37.56 | 95 | 22.2 | 18 | 47.89 | 26 | 52.0 | 15 | 57.42 | 24 | 57.0 | 7 |
| 17 | 37.38 | 59 | 50.8 | 29 | 38.51 | 79 | 24.0 | 23 | 48.15 | 23 | 53.5 | 14 | 57.66 | 21 | 56.3 | 4 |
| 27 | 37.97 | 50 | 53.7 | 32 | 39.30 | 62 | 26.3 | 27 | 48.38 | 20 | 54.9 | 12 | 57.87 | 19 | 55.9 | 1 |
| Okt. 7 | 38.47 | 41 | 56.9 | 33 | 39.92 | 41 | 29.0 | 30 | 48.58 | 17 | 56.1 | 11 | 58.06 | 16 | 55.8 | 2 |
| 17 | 38.88 | 31 | 60.2 | 34 | 40.33 | 19 | 32.0 | 31 | 48.75 | 14 | 57.2 | 10 | 58.22 | 13 | 56.0 | 3 |
| 27 | 39.19 | 20 | 63.6 | 34 | 40.52 | 2 | 35.1 | 32 | 48.89 | 11 | 58.2 | 8 | 58.35 | 9 | 56.3 | 5 |
| Nov. 6 | 39.39 | 9 | 67.0 | 34 | 40.50 | 26 | 38.3 | 31 | 49.00 | 8 | 59.0 | 6 | 58.44 | 7 | 56.8 | 7 |
| 16 | 39.48 | 3 | 70.4 | 31 | 40.24 | 46 | 41.4 | 30 | 49.08 | 4 | 59.6 | 5 | 58.51 | 4 | 57.5 | 8 |
| 26 | 39.45 | 14 | 73.5 | 29 | 39.78 | 66 | 44.4 | 26 | 49.12 | 1 | 60.1 | 4 | 58.55 | 1 | 58.3 | 8 |
| Dez. 6 | 39.31 | 25 | 76.4 | 26 | 39.12 | 84 | 47.0 | 22 | 49.13 | 1 | 60.5 | 2 | 58.56 | 2 | 59.1 | 8 |
| 16 | 39.06 | 36 | 79.0 | 22 | 38.28 | 98 | 49.2 | 17 | 49.12 | 5 | 60.7 | 1 | 58.54 | 5 | 59.9 | 8 |
| 26 | 38.70 | 45 | 81.2 | 17 | 37.30 | 110 | 50.9 | 11 | 49.07 | 8 | 60.8 | 0 | 58.49 | 8 | 60.7 | 8 |
| 36 | 38.25 | | 82.9 | | 36.20 | | 52.0 | | 48.99 | | 60.8 | | 58.41 | | 61.5 | |
| Mittl. Ort | 32.77 | | 47.2 | | 32.02 | | 52.0 | | 45.56 | | 37.4 | | 55.15 | | 78.0 | |
| | 87) | | | | 90) | | | | 89) | | | | 91) | | | |

| 1911 | ϑ Persei. $4^m.1$. | | | | π Ceti. $4^m.0$. | | | | μ Ceti. $4^m.2$. | | | | 41 Arietis. $3^m.6$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. — | | AR. | | Dekl. + | | AR. | | Dekl. + | |
| | $2^h 38^m$ | | 48° 51′ | | $2^h 39^m$ | | 14° 13′ | | $2^h 40^m$ | | 9° 44′ | | $2^h 44^m$ | | 26° 53′ | |
| Jan. 0 | 6.58 | 16 | 21.7 | 7 | 53.30 | 10 | 72.2 | 10 | 7.63 | 9 | 21.5 | 4 | 44.31 | 9 | 46.0 | 1 |
| 10 | 6.42 | 20 | 22.4 | 4 | 53.20 | 12 | 73.2 | 8 | 7.54 | 11 | 21.1 | 5 | 44.22 | 13 | 46.1 | 1 |
| 20 | 6.22 | 23 | 22.8 | 0 | 53.08 | 13 | 74.0 | 5 | 7.43 | 12 | 20.6 | 5 | 44.09 | 14 | 46.0 | 3 |
| 30 | 5.99 | 24 | 22.8 | 4 | 52.95 | 15 | 74.5 | 2 | 7.31 | 14 | 20.1 | 4 | 43.95 | 16 | 45.7 | 5 |
| Febr. 9 | 5.75 | 23 | 22.4 | 7 | 52.80 | 15 | 74.7 | 0 | 7.17 | 14 | 19.7 | 4 | 43.79 | 16 | 45.2 | 6 |
| 19 | 5.52 | 23 | 21.7 | 11 | 52.65 | 14 | 74.7 | 3 | 7.03 | 14 | 19.3 | 4 | 43.63 | 15 | 44.6 | 7 |
| März 1 | 5.29 | 21 | 20.6 | 14 | 52.51 | 14 | 74.4 | 6 | 6.89 | 12 | 18.9 | 3 | 43.48 | 15 | 43.9 | 9 |
| 11 | 5.08 | 17 | 19.2 | 16 | 52.37 | 11 | 73.8 | 9 | 6.77 | 10 | 18.6 | 1 | 43.33 | 11 | 43.0 | 8 |
| 21 | 4.91 | 12 | 17.6 | 18 | 52.26 | 8 | 72.9 | 11 | 6.67 | 7 | 18.5 | 1 | 43.22 | 9 | 42.2 | 8 |
| 31 | 4.79 | 6 | 15.8 | 18 | 52.18 | 4 | 71.8 | 15 | 6.60 | 3 | 18.4 | 2 | 43.13 | 4 | 41.4 | 8 |
| April 10 | 4.73 | 0 | 14.0 | 18 | 52.14 | 0 | 70.3 | 16 | 6.57 | 0 | 18.6 | 3 | 43.09 | 1 | 40.6 | 7 |
| 20 | 4.73 | 7 | 12.2 | 17 | 52.14 | 4 | 68.7 | 19 | 6.57 | 6 | 18.9 | 5 | 43.10 | 5 | 39.9 | 5 |
| 30 | 4.80 | 16 | 10.5 | 16 | 52.18 | 10 | 66.8 | 23 | 6.63 | 11 | 19.4 | 8 | 43.15 | 12 | 39.4 | 3 |
| Mai 10 | 4.96 | 21 | 8.9 | 13 | 52.28 | 14 | 64.5 | 23 | 6.74 | 15 | 20.2 | 10 | 43.27 | 16 | 39.1 | 0 |
| 20 | 5.17 | 27 | 7.6 | 9 | 52.42 | 17 | 62.2 | 24 | 6.89 | 20 | 21.2 | 12 | 43.43 | 21 | 39.1 | 2 |
| 30 | 5.44 | 32 | 6.7 | 6 | 52.59 | 22 | 59.8 | 25 | 7.09 | 23 | 22.4 | 13 | 43.64 | 25 | 39.3 | 4 |
| Juni 9 | 5.76 | 36 | 6.1 | 2 | 52.81 | 25 | 57.3 | 24 | 7.32 | 26 | 23.7 | 16 | 43.89 | 29 | 39.7 | 7 |
| 19 | 6.12 | 41 | 5.9 | 1 | 53.06 | 28 | 54.9 | 24 | 7.58 | 29 | 25.3 | 16 | 44.18 | 31 | 40.4 | 10 |
| 29 | 6.53 | 42 | 6.0 | 4 | 53.34 | 30 | 52.5 | 22 | 7.87 | 31 | 26.9 | 17 | 44.49 | 34 | 41.4 | 11 |
| Juli 9 | 6.95 | 44 | 6.4 | 8 | 53.64 | 31 | 50.3 | 21 | 8.18 | 32 | 28.6 | 18 | 44.83 | 34 | 42.5 | 13 |
| 19 | 7.39 | 45 | 7.2 | 12 | 53.95 | 32 | 48.2 | 19 | 8.50 | 32 | 30.4 | 17 | 45.17 | 35 | 43.8 | 15 |
| 29 | 7.84 | 44 | 8.4 | 14 | 54.27 | 31 | 46.3 | 16 | 8.82 | 31 | 32.1 | 16 | 45.52 | 35 | 45.3 | 17 |
| Aug. 8 | 8.28 | 42 | 9.8 | 17 | 54.58 | 31 | 44.7 | 12 | 9.13 | 31 | 33.7 | 16 | 45.87 | 33 | 47.0 | 16 |
| 18 | 8.70 | 41 | 11.5 | 20 | 54.89 | 28 | 43.5 | 9 | 9.44 | 29 | 35.3 | 14 | 46.20 | 32 | 48.6 | 16 |
| 28 | 9.11 | 38 | 13.5 | 21 | 55.17 | 27 | 42.6 | 5 | 9.73 | 27 | 36.7 | 12 | 46.52 | 30 | 50.2 | 17 |
| Sept. 7 | 9.49 | 35 | 15.6 | 23 | 55.44 | 25 | 42.1 | 1 | 10.00 | 25 | 37.9 | 11 | 46.82 | 27 | 51.9 | 16 |
| 17 | 9.84 | 31 | 17.9 | 24 | 55.69 | 22 | 42.0 | 2 | 10.25 | 22 | 39.0 | 8 | 47.09 | 25 | 53.5 | 15 |
| 27 | 10.15 | 28 | 20.3 | 24 | 55.91 | 19 | 42.2 | 6 | 10.47 | 20 | 39.8 | 6 | 47.34 | 22 | 55.0 | 15 |
| Okt. 7 | 10.43 | 23 | 22.7 | 24 | 56.10 | 15 | 42.8 | 10 | 10.67 | 17 | 40.4 | 4 | 47.56 | 19 | 56.5 | 13 |
| 17 | 10.66 | 19 | 25.1 | 25 | 56.25 | 13 | 43.8 | 12 | 10.84 | 14 | 40.8 | 3 | 47.75 | 16 | 57.8 | 12 |
| 27 | 10.85 | 14 | 27.6 | 23 | 56.38 | 10 | 45.0 | 13 | 10.98 | 10 | 41.1 | 0 | 47.91 | 12 | 59.0 | 11 |
| Nov. 6 | 10.99 | 10 | 29.9 | 23 | 56.48 | 6 | 46.3 | 15 | 11.08 | 8 | 41.1 | 1 | 48.03 | 9 | 60.1 | 10 |
| 16 | 11.09 | 5 | 32.2 | 20 | 56.54 | 3 | 47.8 | 15 | 11.16 | 5 | 41.0 | 2 | 48.12 | 6 | 61.1 | 8 |
| 26 | 11.14 | 1 | 34.2 | 19 | 56.57 | 0 | 49.3 | 16 | 11.21 | 2 | 40.8 | 3 | 48.18 | 3 | 61.9 | 7 |
| Dez. 6 | 11.15 | 5 | 36.1 | 16 | 56.57 | 3 | 50.9 | 14 | 11.23 | 1 | 40.5 | 4 | 48.21 | 1 | 62.6 | 5 |
| 16 | 11.10 | 10 | 37.7 | 13 | 56.54 | 6 | 52.3 | 13 | 11.22 | 5 | 40.1 | 4 | 48.20 | 4 | 63.1 | 3 |
| 26 | 11.00 | 14 | 39.0 | 10 | 56.48 | 9 | 53.6 | 11 | 11.17 | 7 | 39.7 | 5 | 48.16 | 8 | 63.4 | 2 |
| 36 | 10.86 | | 40.0 | | 56.39 | | 54.7 | | 11.10 | | 39.2 | | 48.08 | | 63.6 | |
| Mittl. Ort | 6.83 | | 9.3 | | 53.18 | | 66.7 | | 7.72 | | 19.8 | | 44.48 | | 39.1 | |
| | 93) | | | | 97) | | | | 98) | | | | 100) | | | |

| 1911 | β Fornacis. $4^m.4$. | | | | $\tau^3$ Eridani. $4^m.8$. | | | | τ Persei. $4^m.0$. | | | | η Eridani. $3^m.7$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. − | | AR. | | Dekl. − | | AR. | | Dekl. + | | AR. | | Dekl. − | |
| | $2^h\ 45^m$ | | 32° 46′ | | $2^h\ 46^m$ | | 21° 21′ | | $2^h\ 47^m$ | | 52° 23′ | | $2^h\ 52^m$ | | 9° 14′ | |
| Jan. 0 | $22^s.39$ | 14 | 55″.7 | 12 | $60^s.34$ | 11 | 81″.2 | 11 | $56^s.22$ | 18 | 69″.0 | 10 | $4^s.85$ | 9 | 70″.4 | 10 |
| 10 | 22.25 | 16 | 56.9 | 9 | 60.23 | 13 | 82.3 | 9 | 56.04 | 22 | 70.0 | 6 | 4.76 | 11 | 71.4 | 8 |
| 20 | 22.09 | 18 | 57.8 | 5 | 60.10 | 15 | 83.2 | 5 | 55.82 | 25 | 70.6 | 2 | 4.65 | 13 | 72.2 | 6 |
| 30 | 21.91 | 19 | 58.3 | 0 | 59.95 | 16 | 83.7 | 3 | 55.57 | 27 | 70.8 | 3 | 4.52 | 15 | 72.8 | 4 |
| Febr. 9 | 21.72 | 19 | 58.3 | 3 | 59.79 | 17 | 84.0 | 1 | 55.30 | 26 | 70.5 | 7 | 4.37 | 15 | 73.2 | 1 |
| 19 | 21.53 | 19 | 58.0 | 9 | 59.62 | 15 | 83.9 | 5 | 55.04 | 26 | 69.8 | 10 | 4.22 | 14 | 73.3 | 1 |
| März 1 | 21.34 | 17 | 57.1 | 12 | 59.47 | 15 | 83.4 | 8 | 54.78 | 24 | 68.8 | 14 | 4.08 | 14 | 73.2 | 4 |
| 11 | 21.17 | 14 | 55.9 | 16 | 59.32 | 12 | 82.6 | 12 | 54.54 | 20 | 67.4 | 16 | 3.94 | 11 | 72.8 | 6 |
| 21 | 21.03 | 12 | 54.3 | 20 | 59.20 | 10 | 81.4 | 14 | 54.34 | 14 | 65.8 | 18 | 3.83 | 9 | 72.2 | 9 |
| 31 | 20.91 | 7 | 52.3 | 22 | 59.10 | 6 | 80.0 | 18 | 54.20 | 9 | 64.0 | 19 | 3.74 | 5 | 71.3 | 11 |
| April 10 | 20.84 | 3 | 50.1 | 26 | 59.04 | 1 | 78.2 | 20 | 54.11 | 1 | 62.1 | 19 | 3.69 | 1 | 70.2 | 14 |
| 20 | 20.81 | 2 | 47.5 | 27 | 59.03 | 3 | 76.2 | 22 | 54.10 | 6 | 60.2 | 19 | 3.68 | 4 | 68.8 | 16 |
| 30 | 20.83 | 8 | 44.8 | 33 | 59.06 | 8 | 74.0 | 27 | 54.16 | 14 | 58.3 | 19 | 3.72 | 9 | 67.2 | 20 |
| Mai 10 | 20.91 | 12 | 41.5 | 31 | 59.14 | 13 | 71.3 | 26 | 54.30 | 20 | 56.4 | 14 | 3.81 | 12 | 65.2 | 20 |
| 20 | 21.03 | 17 | 38.4 | 31 | 59.27 | 17 | 68.7 | 27 | 54.50 | 27 | 55.0 | 12 | 3.93 | 17 | 63.2 | 21 |
| 30 | 21.20 | 22 | 35.3 | 31 | 59.44 | 21 | 66.0 | 27 | 54.77 | 33 | 53.8 | 8 | 4.10 | 21 | 61.1 | 22 |
| Juni 9 | 21.42 | 26 | 32.2 | 29 | 59.65 | 25 | 63.3 | 27 | 55.10 | 38 | 53.0 | 5 | 4.31 | 25 | 58.9 | 23 |
| 19 | 21.68 | 29 | 29.3 | 28 | 59.90 | 28 | 60.6 | 26 | 55.48 | 42 | 52.5 | 1 | 4.56 | 27 | 56.6 | 23 |
| 29 | 21.97 | 31 | 26.5 | 26 | 60.18 | 30 | 58.0 | 24 | 55.90 | 45 | 52.4 | 2 | 4.83 | 29 | 54.3 | 21 |
| Juli 9 | 22.28 | 34 | 23.9 | 22 | 60.48 | 31 | 55.6 | 22 | 56.35 | 46 | 52.6 | 6 | 5.12 | 31 | 52.2 | 21 |
| 19 | 22.62 | 34 | 21.7 | 19 | 60.79 | 32 | 53.4 | 19 | 56.81 | 47 | 53.2 | 10 | 5.43 | 31 | 50.1 | 18 |
| 29 | 22.96 | 34 | 19.8 | 14 | 61.11 | 32 | 51.5 | 15 | 57.28 | 47 | 54.2 | 13 | 5.74 | 31 | 48.3 | 16 |
| Aug. 8 | 23.30 | 33 | 18.4 | 9 | 61.43 | 32 | 50.0 | 12 | 57.75 | 46 | 55.5 | 16 | 6.05 | 30 | 46.7 | 14 |
| 18 | 23.63 | 32 | 17.5 | 5 | 61.75 | 29 | 48.8 | 7 | 58.21 | 44 | 57.1 | 19 | 6.35 | 29 | 45.3 | 10 |
| 28 | 23.95 | 30 | 17.0 | 1 | 62.04 | 28 | 48.1 | 3 | 58.65 | 41 | 59.0 | 20 | 6.64 | 27 | 44.3 | 6 |
| Sept. 7 | 24.25 | 27 | 17.1 | 5 | 62.32 | 26 | 47.8 | 2 | 59.06 | 38 | 61.0 | 23 | 6.91 | 25 | 43.7 | 4 |
| 17 | 24.52 | 25 | 17.6 | 10 | 62.58 | 22 | 48.0 | 5 | 59.44 | 35 | 63.3 | 23 | 7.16 | 23 | 43.3 | 1 |
| 27 | 24.77 | 20 | 18.6 | 15 | 62.80 | 20 | 48.5 | 9 | 59.79 | 31 | 65.6 | 25 | 7.39 | 20 | 43.4 | 3 |
| Okt. 7 | 24.97 | 17 | 20.1 | 18 | 63.00 | 17 | 49.4 | 13 | 60.10 | 26 | 68.1 | 26 | 7.59 | 17 | 43.7 | 7 |
| 17 | 25.14 | 13 | 21.9 | 21 | 63.17 | 13 | 50.7 | 16 | 60.36 | 22 | 70.7 | 25 | 7.76 | 14 | 44.4 | 9 |
| 27 | 25.27 | 9 | 24.0 | 22 | 63.30 | 10 | 52.3 | 17 | 60.58 | 17 | 73.2 | 25 | 7.90 | 11 | 45.3 | 11 |
| Nov. 6 | 25.36 | 5 | 26.2 | 24 | 63.40 | 7 | 54.0 | 19 | 60.75 | 12 | 75.7 | 25 | 8.01 | 8 | 46.4 | 13 |
| 16 | 25.41 | 2 | 28.6 | 24 | 63.47 | 2 | 55.9 | 19 | 60.87 | 6 | 78.2 | 22 | 8.09 | 5 | 47.7 | 13 |
| 26 | 25.43 | 3 | 31.0 | 22 | 63.49 | 0 | 57.8 | 18 | 60.93 | 1 | 80.4 | 21 | 8.14 | 2 | 49.0 | 13 |
| Dez. 6 | 25.40 | 6 | 33.2 | 21 | 63.49 | 4 | 59.6 | 18 | 60.94 | 4 | 82.5 | 18 | 8.16 | 2 | 50.3 | 13 |
| 16 | 25.34 | 9 | 35.3 | 18 | 63.45 | 6 | 61.4 | 15 | 60.90 | 10 | 84.3 | 16 | 8.14 | 4 | 51.6 | 12 |
| 26 | 25.25 | 13 | 37.1 | 15 | 63.39 | 10 | 62.9 | 13 | 60.80 | 15 | 85.9 | 12 | 8.10 | 8 | 52.8 | 11 |
| 36 | 25.12 | | 38.6 | | 63.29 | | 64.2 | | 60.65 | | 87.1 | | 8.02 | | 53.9 | |
| Mittl. Ort | 21.92 | | 45.5 | | 60.07 | | 74.1 | | 56.37 | | 56.0 | | 4.72 | | 66.9 | |
| | 101) | | | | 102) | | | | 103) | | | | 104) | | | |

| 1911 | 47 H. Cephei. $5^m.8$. AR. | | Dekl. + | | ϑ Eridani. $2^m.9$. AR. | | Dekl. − | | α Ceti. $2^m.5$. AR. | | Dekl. + | | γ Persei. $3^m.0$. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $2^h\ 54^m$ | | 79° 3′ | | $2^h\ 54^m$ | | 40° 39′ | | $2^h\ 57^m$ | | 3° 44′ | | $2^h\ 58^m$ | | 53° 9′ | |
| Jan. 0 | 13.27 | 78 | 82.5 | 20 | 53.85 | 17 | 50.4 | 15 | 37.55 | 8 | 28.3 | 7 | 20.47 | 17 | 44.0 | 11 |
| 10 | 12.49 | 91 | 84.5 | 14 | 53.68 | 19 | 51.9 | 10 | 37.47 | 11 | 27.6 | 5 | 20.30 | 22 | 45.1 | 7 |
| 20 | 11.58 | 99 | 85.9 | 8 | 53.49 | 21 | 52.9 | 5 | 37.36 | 12 | 27.1 | 5 | 20.08 | 25 | 45.8 | 2 |
| 30 | 10.59 | 104 | 86.7 | 2 | 53.28 | 23 | 53.4 | 0 | 37.24 | 14 | 26.6 | 5 | 19.83 | 27 | 46.0 | 1 |
| Febr. 9 | 9.55 | 104 | 86.9 | 4 | 53.05 | 23 | 53.4 | 5 | 37.10 | 14 | 26.1 | 3 | 19.56 | 28 | 45.9 | 5 |
| 19 | 8.51 | 100 | 86.5 | 10 | 52.82 | 22 | 52.9 | 9 | 36.96 | 14 | 25.8 | 2 | 19.28 | 26 | 45.4 | 9 |
| März 1 | 7.51 | 92 | 85.5 | 15 | 52.60 | 21 | 52.0 | 14 | 36.82 | 13 | 25.6 | 1 | 19.02 | 25 | 44.5 | 13 |
| 11 | 6.59 | 79 | 84.0 | 20 | 52.39 | 18 | 50.6 | 18 | 36.69 | 12 | 25.5 | 1 | 18.77 | 22 | 43.2 | 16 |
| 21 | 5.80 | 62 | 82.0 | 24 | 52.21 | 14 | 48.8 | 22 | 36.57 | 8 | 25.6 | 3 | 18.55 | 16 | 41.6 | 18 |
| 31 | 5.18 | 43 | 79.6 | 26 | 52.07 | 11 | 46.6 | 25 | 36.49 | 5 | 25.9 | 4 | 18.39 | 10 | 39.8 | 18 |
| April 10 | 4.75 | 23 | 77.0 | 27 | 51.96 | 6 | 44.1 | 28 | 36.44 | 1 | 26.3 | 7 | 18.29 | 3 | 38.0 | 20 |
| 20 | 4.52 | 0 | 74.3 | 28 | 51.90 | 0 | 41.3 | 31 | 36.43 | 3 | 27.0 | 8 | 18.26 | 4 | 36.0 | 19 |
| 30 | 4.52 | 26 | 71.5 | 30 | 51.90 | 6 | 38.2 | 35 | 36.46 | 9 | 27.8 | 12 | 18.30 | 13 | 34.1 | 19 |
| Mai 10 | 4.78 | 45 | 68.5 | 26 | 51.96 | 10 | 34.7 | 33 | 36.55 | 13 | 29.0 | 13 | 18.43 | 19 | 32.2 | 15 |
| 20 | 5.23 | 65 | 65.9 | 22 | 52.06 | 16 | 31.4 | 34 | 36.68 | 18 | 30.3 | 14 | 18.62 | 26 | 30.7 | 13 |
| 30 | 5.88 | 83 | 63.7 | 20 | 52.22 | 22 | 28.0 | 32 | 36.86 | 21 | 31.7 | 16 | 18.88 | 32 | 29.4 | 9 |
| Juni 9 | 6.71 | 98 | 61.7 | 16 | 52.44 | 26 | 24.8 | 32 | 37.07 | 25 | 33.3 | 17 | 19.20 | 38 | 28.5 | 7 |
| 19 | 7.69 | 111 | 60.1 | 11 | 52.70 | 29 | 21.6 | 29 | 37.32 | 27 | 35.0 | 18 | 19.58 | 42 | 27.8 | 2 |
| 29 | 8.80 | 120 | 59.0 | 7 | 52.99 | 33 | 18.7 | 27 | 37.59 | 29 | 36.8 | 18 | 20.00 | 44 | 27.6 | 1 |
| Juli 9 | 10.00 | 128 | 58.3 | 2 | 53.32 | 35 | 16.0 | 23 | 37.88 | 31 | 38.6 | 18 | 20.44 | 47 | 27.7 | 5 |
| 19 | 11.28 | 131 | 58.1 | 3 | 53.67 | 36 | 13.7 | 19 | 38.19 | 31 | 40.4 | 18 | 20.91 | 48 | 28.2 | 7 |
| 29 | 12.59 | 133 | 58.4 | 8 | 54.03 | 36 | 11.8 | 14 | 38.50 | 31 | 42.2 | 16 | 21.39 | 48 | 28.9 | 12 |
| Aug. 8 | 13.92 | 130 | 59.2 | 12 | 54.39 | 36 | 10.4 | 8 | 38.81 | 31 | 43.8 | 15 | 21.87 | 47 | 30.1 | 15 |
| 18 | 15.22 | 127 | 60.4 | 17 | 54.75 | 35 | 9.6 | 4 | 39.12 | 29 | 45.3 | 12 | 22.34 | 46 | 31.6 | 17 |
| 28 | 16.49 | 120 | 62.1 | 21 | 55.10 | 33 | 9.2 | 2 | 39.41 | 28 | 46.5 | 10 | 22.80 | 43 | 33.3 | 20 |
| Sept. 7 | 17.69 | 112 | 64.2 | 25 | 55.43 | 30 | 9.4 | 8 | 39.69 | 25 | 47.5 | 8 | 23.23 | 39 | 35.3 | 21 |
| 17 | 18.81 | 101 | 66.7 | 28 | 55.73 | 26 | 10.2 | 12 | 39.94 | 23 | 48.3 | 6 | 23.62 | 37 | 37.4 | 23 |
| 27 | 19.82 | 89 | 69.5 | 30 | 55.99 | 23 | 11.4 | 17 | 40.17 | 21 | 48.9 | 2 | 23.99 | 33 | 39.7 | 24 |
| Okt. 7 | 20.71 | 75 | 72.5 | 33 | 56.22 | 18 | 13.1 | 21 | 40.38 | 18 | 49.1 | 0 | 24.32 | 28 | 42.1 | 25 |
| 17 | 21.46 | 59 | 75.8 | 34 | 56.40 | 15 | 15.2 | 24 | 40.56 | 16 | 49.1 | 1 | 24.60 | 24 | 44.6 | 26 |
| 27 | 22.05 | 41 | 79.2 | 35 | 56.55 | 10 | 17.6 | 26 | 40.72 | 12 | 49.0 | 4 | 24.84 | 19 | 47.2 | 25 |
| Nov. 6 | 22.46 | 23 | 82.7 | 35 | 56.65 | 5 | 20.2 | 27 | 40.84 | 9 | 48.6 | 5 | 25.03 | 14 | 49.7 | 24 |
| 16 | 22.69 | 4 | 86.2 | 34 | 56.70 | 1 | 22.9 | 26 | 40.93 | 6 | 48.1 | 6 | 25.17 | 8 | 52.1 | 23 |
| 26 | 22.73 | 15 | 89.6 | 33 | 56.71 | 4 | 25.5 | 26 | 40.99 | 3 | 47.5 | 7 | 25.25 | 3 | 54.4 | 22 |
| Dez. 6 | 22.58 | 34 | 92.9 | 30 | 56.67 | 7 | 28.1 | 23 | 41.02 | 0 | 46.8 | 7 | 25.28 | 3 | 56.6 | 19 |
| 16 | 22.24 | 53 | 95.9 | 26 | 56.60 | 12 | 30.4 | 20 | 41.02 | 3 | 46.1 | 7 | 25.25 | 9 | 58.5 | 16 |
| 26 | 21.71 | 69 | 98.5 | 22 | 56.48 | 15 | 32.4 | 17 | 40.99 | 6 | 45.4 | 7 | 25.16 | 15 | 60.1 | 13 |
| 36 | 21.02 | | 100.7 | | 56.33 | | 34.1 | | 40.93 | | 44.7 | | 25.01 | | 61.4 | |
| Mittl. Ort | 12.47 | | 65.8 | | 53.12 | | 39.2 | | 37.51 | | 27.8 | | 20.53 | | 30.8 | |
| | 105) | | | | 106) | | | | 107) | | | | 108) | | | |

| 1911 | ρ Persei. ($3^m.8$). AR. |  | Dekl. + |  | μ Horologii. $5^m.1$. AR. |  | Dekl. − |  | β Persei ($2^m.2$). AR. |  | Dekl. + |  | δ Arietis. $4^m.3$. AR. |  | Dekl. + |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | $2^h 59^m$ |  | 38° 29′ |  | $3^h 1^m$ |  | 60° 4′ |  | $3^h 2^m$ |  | 40° 36′ |  | $3^h 6^m$ |  | 19° 23′ |  |
|  | s |  | ″ |  | s |  | ″ |  | s |  | ″ |  | s |  | ″ |  |
| Jan. 0 | 27.99 | 11 | 55.7 | 6 | 32.59 | 33 | 72.0 | 15 | 22.29 | 12 | 58.7 | 7 | 32.20 | 8 | 31.5 | 1 |
| 10 | 27.88 | 14 | 56.3 | 3 | 32.26 | 36 | 73.5 | 9 | 22.17 | 15 | 59.4 | 4 | 32.12 | 11 | 31.4 | 2 |
| 20 | 27.74 | 17 | 56.6 | 0 | 31.90 | 38 | 74.4 | 4 | 22.02 | 18 | 59.8 | 0 | 32.01 | 13 | 31.2 | 3 |
| 30 | 27.57 | 19 | 56.6 | 3 | 31.52 | 40 | 74.8 | 2 | 21.84 | 19 | 59.8 | 2 | 31.88 | 14 | 30.9 | 4 |
| Febr. 9 | 27.38 | 20 | 56.3 | 6 | 31.12 | 40 | 74.6 | 8 | 21.65 | 21 | 59.6 | 5 | 31.74 | 15 | 30.5 | 4 |
| 19 | 27.18 | 19 | 55.7 | 8 | 30.72 | 39 | 73.8 | 13 | 21.44 | 20 | 59.1 | 9 | 31.59 | 16 | 30.1 | 5 |
| März 1 | 26.99 | 18 | 54.9 | 10 | 30.33 | 36 | 72.5 | 18 | 21.24 | 19 | 58.2 | 10 | 31.43 | 14 | 29.6 | 5 |
| 11 | 26.81 | 15 | 53.9 | 12 | 29.97 | 33 | 70.7 | 22 | 21.05 | 16 | 57.2 | 12 | 31.29 | 13 | 29.1 | 5 |
| 21 | 26.66 | 11 | 52.7 | 12 | 29.64 | 28 | 68.5 | 27 | 20.89 | 12 | 56.0 | 13 | 31.16 | 9 | 28.6 | 5 |
| 31 | 26.55 | 7 | 51.5 | 13 | 29.36 | 22 | 65.8 | 30 | 20.77 | 7 | 54.7 | 14 | 31.07 | 6 | 28.1 | 3 |
| April 10 | 26.48 | 2 | 50.2 | 13 | 29.14 | 14 | 62.8 | 33 | 20.70 | 2 | 53.3 | 13 | 31.01 | 1 | 27.8 | 2 |
| 20 | 26.46 | 5 | 48.9 | 12 | 29.00 | 8 | 59.5 | 36 | 20.68 | 3 | 52.0 | 13 | 31.00 | 3 | 27.6 | 1 |
| 30 | 26.51 | 11 | 47.7 | 10 | 28.92 | 0 | 55.9 | 40 | 20.71 | 11 | 50.7 | 12 | 31.03 | 8 | 27.5 | 1 |
| Mai 10 | 26.62 | 16 | 46.7 | 8 | 28.92 | 9 | 51.9 | 36 | 20.82 | 17 | 49.5 | 9 | 31.11 | 14 | 27.6 | 3 |
| 20 | 26.78 | 22 | 45.9 | 5 | 29.01 | 16 | 48.3 | 37 | 20.99 | 21 | 48.6 | 6 | 31.25 | 18 | 27.9 | 6 |
| 30 | 27.00 | 26 | 45.4 | 3 | 29.17 | 24 | 44.6 | 36 | 21.20 | 27 | 48.0 | 4 | 31.43 | 22 | 28.5 | 7 |
| Juni 9 | 27.26 | 31 | 45.1 | 1 | 29.41 | 30 | 41.0 | 34 | 21.47 | 31 | 47.6 | 0 | 31.65 | 26 | 29.2 | 10 |
| 19 | 27.57 | 34 | 45.2 | 4 | 29.71 | 37 | 37.6 | 30 | 21.78 | 34 | 47.6 | 2 | 31.91 | 28 | 30.2 | 11 |
| 29 | 27.91 | 36 | 45.6 | 6 | 30.08 | 41 | 34.6 | 27 | 22.12 | 37 | 47.8 | 5 | 32.19 | 31 | 31.3 | 13 |
| Juli 9 | 28.27 | 38 | 46.2 | 9 | 30.49 | 46 | 31.9 | 23 | 22.49 | 39 | 48.3 | 8 | 32.50 | 33 | 32.6 | 14 |
| 19 | 28.65 | 38 | 47.1 | 11 | 30.95 | 48 | 29.6 | 18 | 22.88 | 40 | 49.1 | 11 | 32.83 | 33 | 34.0 | 14 |
| 29 | 29.03 | 39 | 48.2 | 14 | 31.43 | 50 | 27.8 | 12 | 23.28 | 40 | 50.2 | 13 | 33.16 | 33 | 35.4 | 15 |
| Aug. 8 | 29.42 | 38 | 49.6 | 15 | 31.93 | 49 | 26.6 | 6 | 23.68 | 38 | 51.5 | 14 | 33.49 | 32 | 36.9 | 15 |
| 18 | 29.80 | 36 | 51.1 | 16 | 32.42 | 49 | 26.0 | 0 | 24.06 | 37 | 52.9 | 17 | 33.81 | 32 | 38.4 | 14 |
| 28 | 30.16 | 34 | 52.7 | 18 | 32.91 | 45 | 26.0 | 6 | 24.43 | 36 | 54.6 | 17 | 34.13 | 29 | 39.8 | 14 |
| Sept. 7 | 30.50 | 32 | 54.5 | 18 | 33.36 | 42 | 26.6 | 12 | 24.79 | 33 | 56.3 | 19 | 34.42 | 28 | 41.2 | 13 |
| 17 | 30.82 | 29 | 56.3 | 19 | 33.78 | 37 | 27.8 | 17 | 25.12 | 30 | 58.2 | 19 | 34.70 | 25 | 42.5 | 11 |
| 27 | 31.11 | 27 | 58.2 | 19 | 34.15 | 32 | 29.5 | 22 | 25.42 | 27 | 60.1 | 20 | 34.95 | 23 | 43.6 | 10 |
| Okt. 7 | 31.38 | 23 | 60.1 | 18 | 34.47 | 25 | 31.7 | 27 | 25.69 | 24 | 62.1 | 19 | 35.18 | 20 | 44.6 | 9 |
| 17 | 31.61 | 19 | 61.9 | 18 | 34.72 | 17 | 34.4 | 29 | 25.93 | 20 | 64.0 | 19 | 35.38 | 18 | 45.5 | 7 |
| 27 | 31.80 | 16 | 63.7 | 18 | 34.89 | 10 | 37.3 | 31 | 26.13 | 17 | 65.9 | 18 | 35.56 | 14 | 46.2 | 6 |
| Nov. 6 | 31.96 | 12 | 65.5 | 16 | 34.99 | 3 | 40.4 | 31 | 26.30 | 13 | 67.7 | 18 | 35.70 | 11 | 46.8 | 4 |
| 16 | 32.08 | 8 | 67.1 | 15 | 35.02 | 5 | 43.5 | 31 | 26.43 | 8 | 69.5 | 16 | 35.81 | 8 | 47.2 | 3 |
| 26 | 32.16 | 4 | 68.6 | 13 | 34.97 | 12 | 46.6 | 29 | 26.51 | 4 | 71.1 | 14 | 35.89 | 5 | 47.5 | 3 |
| Dez. 6 | 32.20 | 0 | 69.9 | 12 | 34.85 | 18 | 49.5 | 27 | 26.55 | 0 | 72.5 | 13 | 35.94 | 1 | 47.8 | 1 |
| 16 | 32.20 | 5 | 71.1 | 9 | 34.67 | 25 | 52.2 | 22 | 26.55 | 5 | 73.8 | 10 | 35.95 | 2 | 47.9 | 0 |
| 26 | 32.15 | 9 | 72.0 | 7 | 34.42 | 30 | 54.4 | 18 | 26.50 | 9 | 74.8 | 8 | 35.93 | 6 | 47.9 | 1 |
| 36 | 32.06 |  | 72.7 |  | 34.12 |  | 56.2 |  | 26.41 |  | 75.6 |  | 35.87 |  | 47.8 |  |
| Mittl. Ort | 28.09 |  | 45.8 |  | 30.81 |  | 57.9 |  | 22.37 |  | 48.3 |  | 32.21 |  | 26.5 |  |
|  | 109) |  |  |  | 110) |  |  |  | 111) |  |  |  | 114) |  |  |  |

| 1911 | 12 Eridani. $3^m.6$. | | | | 48 H. Cephei. $5^m.9$. | | | |
|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. − | | AR. | | Dekl. + | |
| | $3^h\ 8^m$ | | 29° 19′ | | $3^h\ 8^m$ | | 77° 24′ | |
| | s | | ″ | | s | | ″ | |
| Jan. 0 | 17.88 | 12 | 83.0 | 14 | 60.19 | 62 | 49.0 | 20 |
| 10 | 17.76 | 14 | 84.4 | 11 | 59.57 | 74 | 51.0 | 15 |
| 20 | 17.62 | 17 | 85.5 | 7 | 58.83 | 83 | 52.5 | 10 |
| 30 | 17.45 | 18 | 86.2 | 2 | 58.00 | 88 | 53.5 | 4 |
| Febr. 9 | 17.27 | 19 | 86.4 | 1 | 57.12 | 90 | 53.9 | 3 |
| 19 | 17.08 | 18 | 86.3 | 6 | 56.22 | 88 | 53.6 | 8 |
| März 1 | 16.90 | 18 | 85.7 | 9 | 55.34 | 82 | 52.8 | 13 |
| 11 | 16.72 | 15 | 84.8 | 13 | 54.52 | 71 | 51.5 | 18 |
| 21 | 16.57 | 13 | 83.5 | 17 | 53.81 | 58 | 49.7 | 22 |
| 31 | 16.44 | 9 | 81.8 | 20 | 53.23 | 42 | 47.5 | 25 |
| April 10 | 16.35 | 5 | 79.8 | 24 | 52.81 | 24 | 45.0 | 26 |
| 20 | 16.30 | 0 | 77.4 | 25 | 52.57 | 5 | 42.4 | 27 |
| 30 | 16.30 | 4 | 74.9 | 28 | 52.52 | 15 | 39.7 | 28 |
| Mai 10 | 16.34 | 11 | 72.1 | 32 | 52.67 | 37 | 36.9 | 28 |
| 20 | [10]16.45 | 15 | 68.9 | 30 | [11]53.04 | 52 | 34.1 | 23 |
| 30 | 16.60 | 19 | 65.9 | 30 | 53.56 | 69 | 31.8 | 21 |
| Juni 9 | 16.79 | 23 | 62.9 | 29 | 54.25 | 83 | 29.7 | 17 |
| 19 | 17.02 | 27 | 60.0 | 28 | 55.08 | 95 | 28.0 | 12 |
| 29 | 17.29 | 30 | 57.2 | 27 | 56.03 | 104 | 26.8 | 8 |
| Juli 9 | 17.59 | 31 | 54.5 | 23 | 57.07 | 112 | 26.0 | 4 |
| 19 | 17.90 | 33 | 52.2 | 20 | 58.19 | 115 | 25.6 | 1 |
| 29 | 18.23 | 32 | 50.2 | 16 | 59.34 | 118 | 25.7 | 5 |
| Aug. 8 | 18.55 | 34 | 48.6 | 12 | 60.52 | 117 | 26.2 | 11 |
| 18 | 18.89 | 32 | 47.4 | 7 | 61.69 | 114 | 27.3 | 14 |
| 28 | 19.21 | 30 | 46.7 | 2 | 62.83 | 109 | 28.7 | 19 |
| Sept. 7 | 19.51 | 28 | 46.5 | 3 | 63.92 | 102 | 30.6 | 23 |
| 17 | 19.79 | 25 | 46.8 | 8 | 64.94 | 95 | 32.9 | 26 |
| 27 | 20.04 | 23 | 47.6 | 12 | 65.89 | 84 | 35.5 | 29 |
| Okt. 7 | 20.27 | 19 | 48.8 | 16 | 66.73 | 73 | 38.4 | 31 |
| 17 | 20.46 | 15 | 50.4 | 19 | 67.46 | 60 | 41.5 | 33 |
| 27 | 20.61 | 12 | 52.3 | 21 | 68.06 | 44 | 44.8 | 34 |
| Nov. 6 | 20.73 | 8 | 54.4 | 23 | 68.50 | 29 | 48.2 | 34 |
| 16 | 20.81 | 4 | 56.7 | 23 | 68.79 | 12 | 51.6 | 33 |
| 26 | 20.85 | 1 | 59.0 | 22 | 68.91 | 5 | 54.9 | 33 |
| Dez. 6 | 20.86 | 3 | 61.2 | 21 | 68.86 | 22 | 58.2 | 30 |
| 16 | 20.83 | 7 | 63.3 | 20 | 68.64 | 39 | 61.2 | 27 |
| 26 | 20.76 | 11 | 65.3 | 15 | 68.25 | 53 | 63.9 | 23 |
| 36 | 20.65 | | 66.8 | | 67.72 | | 66.2 | |
| Mittl. Ort | 17.37 | | 75.1 | | 59.24 | | 32.7 | |
| | 117) | | | | 115) | | | |

| 1911 | α Persei. $1^m.9$. | | | | ο Tauri. $3^m.6$. | | | |
|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. + | |
| | $3^h\ 17^m$ | | 49° 32′ | | $3^h\ 20^m$ | | 8° 42′ | |
| | s | | ″ | | s | | ″ | |
| Jan. 0 | 57.78 | 14 | 54.7 | 11 | 1.42 | 7 | 60.7 | 5 |
| 10 | 57.64 | 17 | 55.8 | 8 | 1.35 | 10 | 60.2 | 5 |
| 20 | 57.47 | 21 | 56.6 | 4 | 1.25 | 11 | 59.7 | 4 |
| 30 | 57.26 | 24 | 57.0 | 0 | 1.14 | 14 | 59.3 | 4 |
| Febr. 9 | 57.02 | 26 | 57.0 | 4 | 1.00 | 15 | 58.9 | 3 |
| 19 | 56.76 | 25 | 56.6 | 7 | 0.85 | 15 | 58.6 | 3 |
| März 1 | 56.51 | 24 | 55.9 | 10 | 0.70 | 14 | 58.3 | 2 |
| 11 | 56.27 | 20 | 54.9 | 13 | 0.56 | 13 | 58.1 | 1 |
| 21 | 56.07 | 17 | 53.6 | 16 | 0.43 | 10 | 58.0 | 0 |
| 31 | 55.90 | 12 | 52.0 | 16 | 0.33 | 7 | 58.0 | 2 |
| April 10 | 55.78 | 5 | 50.4 | 17 | 0.26 | 3 | 58.2 | 3 |
| 20 | 55.73 | 1 | 48.7 | 17 | 0.23 | 2 | 58.5 | 5 |
| 30 | 55.74 | 9 | 47.0 | 16 | 0.25 | 6 | 59.0 | 8 |
| Mai 10 | 55.83 | 17 | 45.4 | 16 | 0.31 | 12 | 59.8 | 10 |
| 20 | [13]56.00 | 22 | 43.8 | 12 | [13]0.43 | 16 | 60.8 | 11 |
| 30 | 56.22 | 28 | 42.6 | 9 | 0.59 | 19 | 61.9 | 13 |
| Juni 9 | 56.50 | 34 | 41.7 | 6 | 0.78 | 24 | 63.2 | 14 |
| 19 | 56.84 | 38 | 41.1 | 3 | 1.02 | 26 | 64.6 | 15 |
| 29 | 57.22 | 40 | 40.8 | 0 | 1.28 | 29 | 66.1 | 16 |
| Juli 9 | 57.62 | 44 | 40.8 | 3 | 1.57 | 30 | 67.7 | 16 |
| 19 | 58.06 | 44 | 41.1 | 7 | 1.87 | 31 | 69.3 | 16 |
| 29 | 58.50 | 45 | 41.8 | 10 | 2.18 | 32 | 70.9 | 15 |
| Aug. 8 | 58.95 | 45 | 42.8 | 12 | 2.50 | 31 | 72.4 | 14 |
| 18 | 59.40 | 44 | 44.0 | 15 | 2.81 | 30 | 73.8 | 13 |
| 28 | 59.84 | 41 | 45.5 | 17 | 3.11 | 29 | 75.1 | 11 |
| Sept. 7 | 60.25 | 40 | 47.2 | 19 | 3.40 | 27 | 76.2 | 9 |
| 17 | 60.65 | 36 | 49.1 | 20 | 3.67 | 25 | 77.1 | 6 |
| 27 | 61.01 | 33 | 51.1 | 21 | 3.92 | 23 | 77.7 | 5 |
| Okt. 7 | 61.34 | 30 | 53.2 | 22 | 4.15 | 20 | 78.2 | 2 |
| 17 | 61.64 | 25 | 55.4 | 23 | 4.35 | 18 | 78.4 | 1 |
| 27 | 61.89 | 21 | 57.7 | 22 | 4.53 | 15 | 78.5 | 1 |
| Nov. 6 | 62.10 | 16 | 59.9 | 22 | 4.68 | 12 | 78.4 | 3 |
| 16 | 62.26 | 12 | 62.1 | 21 | 4.80 | 9 | 78.1 | 3 |
| 26 | 62.38 | 6 | 64.2 | 20 | 4.89 | 5 | 77.8 | 4 |
| Dez. 6 | 62.44 | 0 | 66.2 | 18 | 4.94 | 2 | 77.4 | 5 |
| 16 | 62.44 | 5 | 68.0 | 15 | 4.96 | 1 | 76.9 | 5 |
| 26 | 62.39 | 10 | 69.5 | 13 | 4.95 | 5 | 76.4 | 5 |
| 36 | 62.29 | | 70.8 | | 4.90 | | 75.9 | |
| Mittl. Ort | 57.72 | | 42.5 | | 1.31 | | 58.3 | |
| | 120) | | | | 121) | | | |

| 1911 | 2 H. Camelop. 4$^m$.4. | | | | f Tauri. 4$^m$.1. | | | | ε Eridani. 3$^m$.5. | | | | δ Persei. 3$^m$.0. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | Δ | Dekl. + | Δ | AR. | Δ | Dekl. + | Δ | AR. | Δ | Dekl. — | Δ | AR. | Δ | Dekl. + | Δ |
| | 3$^h$ 21$^m$ | | 59° 37′ | | 3$^h$ 25$^m$ | | 12° 37′ | | 3$^h$ 28$^m$ | | 9° 45′ | | 3$^h$ 36$^m$ | | 47° 30′ | |
| | s | | " | | s | | " | | s | | " | | s | | " | |
| Jan. 0 | 51.34 | 19 | 65.7 | 16 | 57.54 | 6 | 59.5 | 3 | 44.51 | 8 | 34.8 | 11 | 35.11 | 10 | 25.0 | 12 |
| 10 | 51.15 | 25 | 67.3 | 11 | 57.48 | 10 | 59.2 | 4 | 44.43 | 10 | 35.9 | 10 | 35.01 | 15 | 26.2 | 8 |
| 20 | 50.90 | 30 | 68.4 | 7 | 57.38 | 12 | 58.8 | 4 | 44.33 | 13 | 36.9 | 7 | 34.86 | 19 | 27.0 | 5 |
| 30 | 50.60 | 33 | 69.1 | 2 | 57.26 | 13 | 58.4 | 3 | 44.20 | 14 | 37.6 | 4 | 34.67 | 22 | 27.5 | 2 |
| Febr. 9 | 50.27 | 34 | 69.3 | 2 | 57.13 | 15 | 58.1 | 4 | 44.06 | 16 | 38.0 | 3 | 34.45 | 24 | 27.7 | 2 |
| 19 | 49.93 | 35 | 69.1 | 7 | 56.98 | 16 | 57.7 | 3 | 43.90 | 16 | 38.3 | 0 | 34.21 | 25 | 27.5 | 5 |
| März 1 | 49.58 | 32 | 68.4 | 11 | 56.82 | 15 | 57.4 | 3 | 43.74 | 16 | 38.3 | 3 | 33.96 | 23 | 27.0 | 9 |
| 11 | 49.26 | 29 | 67.3 | 15 | 56.67 | 13 | 57.1 | 2 | 43.58 | 14 | 38.0 | 5 | 33.73 | 22 | 26.1 | 11 |
| 21 | 48.97 | 23 | 65.8 | 17 | 56.54 | 11 | 56.9 | 2 | 43.44 | 12 | 37.5 | 8 | 33.51 | 17 | 25.0 | 13 |
| 31 | 48.74 | 17 | 64.1 | 20 | 56.43 | 7 | 56.7 | 0 | 43.32 | 8 | 36.7 | 11 | 33.34 | 13 | 23.7 | 15 |
| April 10 | 48.57 | 9 | 62.1 | 21 | 56.36 | 3 | 56.7 | 2 | 43.24 | 5 | 35.6 | 13 | 33.21 | 7 | 22.2 | 16 |
| 20 | 48.48 | 0 | 60.0 | 22 | 56.33 | 1 | 56.9 | 3 | 43.19 | 0 | 34.3 | 16 | 33.14 | 1 | 20.6 | 15 |
| 30 | 48.48 | 8 | 57.8 | 21 | 56.34 | 6 | 57.2 | 4 | 43.19 | 4 | 32.7 | 17 | 33.13 | 6 | 19.1 | 15 |
| Mai 10 | 48.56 | 19 | 55.7 | 21 | 56.40 | 11 | 57.6 | 8 | 43.23 | 9 | 31.0 | 21 | 33.19 | 14 | 17.6 | 16 |
| 20 | [14] 48.75 | 26 | 53.6 | 17 | [15] 56.51 | 16 | 58.4 | 8 | [16] 43.32 | 13 | 28.9 | 21 | [18] 33.33 | 19 | 16.0 | 11 |
| 30 | 49.01 | 33 | 51.9 | 14 | 56.67 | 20 | 59.2 | 11 | 43.45 | 18 | 26.8 | 22 | 33.52 | 26 | 14.9 | 10 |
| Juni 9 | 49.34 | 40 | 50.5 | 11 | 56.87 | 23 | 60.3 | 12 | 43.63 | 22 | 24.6 | 22 | 33.78 | 30 | 13.9 | 6 |
| 19 | 49.74 | 46 | 49.4 | 7 | 57.10 | 27 | 61.5 | 13 | 43.85 | 24 | 22.4 | 23 | 34.08 | 35 | 13.3 | 4 |
| 29 | 50.20 | 49 | 48.7 | 4 | 57.37 | 29 | 62.8 | 14 | 44.09 | 27 | 20.1 | 21 | 34.43 | 39 | 12.9 | 1 |
| Juli 9 | 50.69 | 53 | 48.3 | 0 | 57.66 | 30 | 64.2 | 15 | 44.36 | 29 | 18.0 | 21 | 34.82 | 41 | 12.8 | 2 |
| 19 | 51.22 | 55 | 48.3 | 3 | 57.96 | 32 | 65.7 | 15 | 44.65 | 30 | 15.9 | 19 | 35.23 | 43 | 13.0 | 6 |
| 29 | 51.77 | 55 | 48.6 | 8 | 58.28 | 31 | 67.2 | 15 | 44.95 | 31 | 14.0 | 17 | 35.66 | 43 | 13.6 | 8 |
| Aug. 8 | 52.32 | 56 | 49.4 | 11 | 58.59 | 32 | 68.7 | 14 | 45.26 | 30 | 12.3 | 13 | 36.09 | 44 | 14.4 | 10 |
| 18 | 52.88 | 54 | 50.5 | 14 | 58.91 | 31 | 70.1 | 12 | 45.56 | 30 | 11.0 | 11 | 36.53 | 42 | 15.4 | 12 |
| 28 | 53.42 | 52 | 51.9 | 17 | 59.22 | 29 | 71.3 | 12 | 45.86 | 28 | 9.9 | 7 | 36.95 | 42 | 16.6 | 15 |
| Sept. 7 | 53.94 | 49 | 53.6 | 19 | 59.51 | 28 | 72.5 | 10 | 46.14 | 27 | 9.2 | 3 | 37.37 | 40 | 18.1 | 16 |
| 17 | 54.43 | 46 | 55.5 | 22 | 59.79 | 26 | 73 5 | 8 | 46.41 | 25 | 8.9 | 0 | 37.77 | 37 | 19.7 | 18 |
| 27 | 54.89 | 42 | 57.7 | 24 | 60.05 | 24 | 74.3 | 6 | 46.66 | 23 | 8.9 | 4 | 38.14 | 34 | 21.5 | 19 |
| Okt. 7 | 55.31 | 37 | 60.1 | 25 | 60.29 | 21 | 74.9 | 4 | 46.89 | 20 | 9.3 | 7 | 38.48 | 31 | 23.4 | 20 |
| 17 | 55.68 | 32 | 62.6 | 27 | 60.50 | 18 | 75.3 | 3 | 47.09 | 17 | 10.0 | 10 | 38.79 | 27 | 25.4 | 20 |
| 27 | 56.00 | 26 | 65.3 | 26 | 60.68 | 16 | 75.6 | 1 | 47.26 | 14 | 11.0 | 12 | 39.06 | 23 | 27.4 | 21 |
| Nov. 6 | 56.26 | 20 | 67.9 | 27 | 60.84 | 13 | 75.7 | 1 | 47.40 | 11 | 12.2 | 13 | 39.29 | 18 | 29.5 | 20 |
| 16 | 56.46 | 13 | 70.6 | 27 | 60.97 | 10 | 75.6 | 1 | 47.51 | 8 | 13.5 | 15 | 39.47 | 14 | 31.5 | 19 |
| 26 | 56.59 | 6 | 73.3 | 25 | 61.07 | 6 | 75.5 | 2 | 47.59 | 5 | 15.0 | 15 | 39.61 | 9 | 33.4 | 19 |
| Dez. 6 | 56.65 | 2 | 75.8 | 23 | 61.13 | 3 | 75.3 | 3 | 47.64 | 1 | 16.5 | 14 | 39.70 | 4 | 35.3 | 17 |
| 16 | 56.63 | 8 | 78.1 | 20 | 61.16 | 1 | 75.0 | 3 | 47.65 | 2 | 17.9 | 14 | 39.74 | 2 | 37.0 | 15 |
| 26 | 56.55 | 15 | 80.1 | 17 | 61.15 | 5 | 74.7 | 3 | 47.63 | 5 | 19.3 | 12 | 39.72 | 8 | 38.5 | 13 |
| 36 | 56.40 | | 81.8 | | 61.10 | | 74.4 | | 47.58 | | 20.5 | | 39.64 | | 39.8 | |
| Mittl. Ort | 51.11 | | 51.8 | | 57.43 | | 55.9 | | 44.20 | | 32.7 | | 34.94 | | 13.4 | |
| | 122) | | | | 125) | | | | 127) | | | | 131) | | | |

| 1911 | ν Persei. 3ᵐ.9. AR. | | Dekl. + | | 5 H. Camelop. 4ᵐ.5. AR. | | Dekl. + | | η Tauri. 3ᵐ.0. AR. | | Dekl. + | | τ⁶ Eridani. 4ᵐ.1. AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $3^h 39^m$ | | 42° 17′ | | $3^h 40^m$ | | 71° 3′ | | $3^h 42^m$ | | 23° 49′ | | $3^h 43^m$ | | 23° 30′ | |
| Jan. 0 | 8.72 | 8 | 63.8 | 10 | 57.58 | 30 | 47.9 | 21 | 11.62 | 6 | 56.6 | 1 | 1.65 | 9 | 48.1 | 16 |
| 10 | 8.64 | 14 | 64.8 | 7 | 57.28 | 41 | 50.0 | 17 | 11.56 | 9 | 56.7 | 1 | 1.56 | 12 | 49.7 | 13 |
| 20 | 8.50 | 17 | 65.5 | 4 | 56.87 | 49 | 51.7 | 12 | 11.47 | 12 | 56.8 | 1 | 1.44 | 14 | 51.0 | 10 |
| 30 | 8.33 | 19 | 65.9 | 1 | 56.38 | 54 | 52.9 | 6 | 11.35 | 15 | 56.7 | 2 | 1.30 | 17 | 52.0 | 6 |
| Febr. 9 | 8.14 | 21 | 66.0 | 2 | 55.84 | 57 | 53.5 | 1 | 11.20 | 16 | 56.5 | 3 | 1.13 | 18 | 52.6 | 2 |
| 19 | 7.93 | 22 | 65.8 | 5 | 55.27 | 58 | 53.6 | 4 | 11.04 | 17 | 56.2 | 4 | 0.95 | 18 | 52.8 | 1 |
| März 1 | 7.71 | 22 | 65.3 | 8 | 54.69 | 56 | 53.2 | 9 | 10.87 | 17 | 55.8 | 4 | 0.77 | 18 | 52.7 | 6 |
| 11 | 7.49 | 19 | 64.5 | 10 | 54.13 | 51 | 52.3 | 14 | 10.70 | 14 | 55.4 | 5 | 0.59 | 17 | 52.1 | 8 |
| 21 | 7.30 | 16 | 63.5 | 11 | 53.62 | 43 | 50.9 | 18 | 10.56 | 13 | 54.9 | 6 | 0.42 | 15 | 51.3 | 13 |
| 31 | 7.14 | 11 | 62.4 | 13 | 53.19 | 33 | 49.1 | 22 | 10.43 | 9 | 54.3 | 5 | 0.27 | 11 | 50.0 | 15 |
| April 10 | 7.03 | 6 | 61.1 | 13 | 52.86 | 21 | 46.9 | 23 | 10.34 | 5 | 53.8 | 4 | 0.16 | 8 | 48.5 | 19 |
| 20 | 6.97 | 1 | 59.8 | 14 | 52.65 | 10 | 44.6 | 25 | 10.29 | 0 | 53.4 | 4 | 0.08 | 3 | 46.6 | 21 |
| 30 | 6.96 | 5 | 58.4 | 12 | 52.55 | 4 | 42.1 | 25 | 10.29 | 5 | 53.0 | 2 | 0.05 | 1 | 44.5 | 24 |
| Mai 10 | 7.01 | 13 | 57.2 | 12 | 52.59 | 19 | 39.6 | 26 | 10.34 | 11 | 52.8 | 0 | 0.06 | 7 | 42.1 | 28 |
| 20 | [18] 7.14 | 18 | 56.0 | 9 | [19] 52.78 | 30 | 37.0 | 23 | [19] 10.45 | 15 | 52.8 | 2 | [19] 0.13 | 12 | 39.3 | 26 |
| 30 | 7.32 | 24 | 55.1 | 7 | 53.08 | 42 | 34.7 | 21 | 10.60 | 19 | 53.0 | 3 | 0.25 | 16 | 36.7 | 28 |
| Juni 9 | 7.56 | 28 | 54.4 | 4 | 53.50 | 53 | 32.6 | 17 | 10.79 | 24 | 53.3 | 5 | 0.41 | 20 | 33.9 | 27 |
| 19 | 7.84 | 32 | 54.0 | 1 | 54.03 | 62 | 30.9 | 14 | 11.03 | 27 | 53.8 | 7 | 0.61 | 23 | 31.2 | 27 |
| 29 | 8.16 | 36 | 53.9 | 1 | 54.65 | 70 | 29.5 | 10 | 11.30 | 30 | 54.5 | 9 | 0.84 | 27 | 28.5 | 26 |
| Juli 9 | 8.52 | 38 | 54.0 | 4 | 55.35 | 75 | 28.5 | 6 | 11.60 | 32 | 55.4 | 10 | 1.11 | 29 | 25.9 | 23 |
| 19 | 8.90 | 40 | 54.4 | 6 | 56.10 | 79 | 27.9 | 2 | 11.92 | 33 | 56.4 | 12 | 1.40 | 30 | 23.6 | 21 |
| 29 | 9.30 | 40 | 55.0 | 9 | 56.89 | 82 | 27.7 | 2 | 12.25 | 34 | 57.6 | 12 | 1.70 | 31 | 21.5 | 18 |
| Aug. 8 | 9.70 | 40 | 55.9 | 10 | 57.71 | 83 | 27.9 | 7 | 12.59 | 33 | 58.8 | 12 | 2.01 | 32 | 19.7 | 13 |
| 18 | 10.10 | 40 | 56.9 | 13 | 58.54 | 83 | 28.6 | 10 | 12.92 | 33 | 60.0 | 12 | 2.33 | 31 | 18.4 | 9 |
| 28 | 10.50 | 38 | 58.2 | 14 | 59.37 | 80 | 29.6 | 15 | 13.25 | 32 | 61.2 | 12 | 2.64 | 30 | 17.5 | 5 |
| Sept. 7 | 10.88 | 37 | 59.6 | 15 | 60.17 | 76 | 31.1 | 18 | 13.57 | 31 | 62.4 | 12 | 2.94 | 29 | 17.0 | 0 |
| 17 | 11.25 | 34 | 61.1 | 16 | 60.93 | 72 | 32.9 | 21 | 13.88 | 28 | 63.6 | 11 | 3.23 | 26 | 17.0 | 5 |
| 27 | 11.59 | 32 | 62.7 | 17 | 61.65 | 67 | 35.0 | 24 | 14.16 | 27 | 64.7 | 10 | 3.49 | 25 | 17.5 | 9 |
| Okt. 7 | 11.91 | 29 | 64.4 | 18 | 62.32 | 59 | 37.4 | 27 | 14.43 | 24 | 65.7 | 9 | 3.74 | 22 | 18.4 | 13 |
| 17 | 12.20 | 25 | 66.2 | 17 | 62.91 | 52 | 40.1 | 28 | 14.67 | 21 | 66.6 | 8 | 3.96 | 18 | 19.7 | 16 |
| 27 | 12.45 | 22 | 67.9 | 18 | 63.43 | 43 | 42.9 | 30 | 14.88 | 19 | 67.4 | 7 | 4.14 | 16 | 21.3 | 20 |
| Nov. 6 | 12.67 | 18 | 69.7 | 17 | 63.86 | 32 | 45.9 | 31 | 15.07 | 16 | 68.1 | 6 | 4.30 | 12 | 23.3 | 21 |
| 16 | 12.85 | 14 | 71.4 | 17 | 64.18 | 22 | 49.0 | 31 | 15.23 | 12 | 68.7 | 5 | 4.42 | 8 | 25.4 | 21 |
| 26 | 12.99 | 9 | 73.1 | 16 | 64.40 | 10 | 52.1 | 30 | 15.35 | 8 | 69.2 | 5 | 4.50 | 5 | 27.5 | 23 |
| Dez. 6 | 13.08 | 5 | 74.7 | 14 | 64.50 | 2 | 55.1 | 28 | 15.43 | 5 | 69.7 | 3 | 4.55 | 0 | 29.8 | 21 |
| 16 | 13.13 | 1 | 76.1 | 12 | 64.48 | 14 | 57.9 | 26 | 15.48 | 0 | 70.0 | 3 | 4.55 | 3 | 31.9 | 20 |
| 26 | 13.12 | 6 | 77.3 | 11 | 64.34 | 24 | 60.5 | 23 | 15.48 | 3 | 70.3 | 2 | 4.52 | 6 | 33.9 | 17 |
| 36 | 13.06 | | 78.4 | | 64.10 | | 62.8 | | 15.45 | | 70.5 | | 4.46 | | 35.6 | |
| Mittl. Ort | 8.56 | | 53.3 | | 56.68 | | 33.0 | | 11.47 | | 50.0 | | 1.08 | | 43.5 | |
| | | 134) | | | | 138) | | | | 139) | | | | 140) | | |

| 1911 | β Reticuli. $3^m.8$. AR. | | β Reticuli. Dekl. — | | g Eridani. $4^m.1$. AR. | | g Eridani. Dekl. — | | ζ Persei. $2^m.9$. AR. | | ζ Persei. Dekl. + | | γ Hydri. $3^m.1$. AR. | | γ Hydri. Dekl. — | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $3^h\ 43^m$ | | 65° 4′ | | $3^h\ 46^m$ | | 36° 27′ | | $3^h\ 48^m$ | | 31° 37′ | | $3^h\ 48^m$ | | 74° 30′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | | s | | ″ | |
| Jan. 0 | 7.46 | 36 | 83.9 | 20 | 8.28 | 12 | 76.7 | 19 | 32.22 | 5 | 20.4 | 5 | 41.19 | 64 | 54.4 | 19 |
| 10 | 7.10 | 43 | 85.9 | 15 | 8.16 | 15 | 78.6 | 15 | 32.17 | 10 | 20.9 | 3 | 40.55 | 73 | 56.3 | 15 |
| 20 | 6.67 | 47 | 87.4 | 9 | 8.01 | 19 | 80.1 | 10 | 32.07 | 13 | 21.2 | 2 | 39.82 | 81 | 57.8 | 8 |
| 30 | 6.20 | 50 | 88.3 | 3 | 7.82 | 21 | 81.1 | 6 | 31.94 | 16 | 21.4 | 0 | 39.01 | 84 | 58.6 | 3 |
| Febr. 9 | 5.70 | 51 | 88.6 | 2 | 7.61 | 22 | 81.7 | 2 | 31.78 | 18 | 21.4 | 2 | 38.17 | 87 | 58.9 | 2 |
| 19 | 5.19 | 51 | 88.4 | 8 | 7.39 | 23 | 81.9 | 3 | 31.60 | 19 | 21.2 | 4 | 37.30 | 86 | 58.7 | 9 |
| März 1 | 4.68 | 50 | 87.6 | 14 | 7.16 | 22 | 81.6 | 8 | 31.41 | 18 | 20.8 | 5 | 36.44 | 84 | 57.8 | 14 |
| 11 | 4.18 | 46 | 86.2 | 18 | 6.94 | 21 | 80.8 | 12 | 31.23 | 16 | 20.3 | 7 | 35.60 | 79 | 56.4 | 19 |
| 21 | 3.72 | 42 | 84.4 | 23 | 6.73 | 18 | 79.6 | 17 | 31.07 | 14 | 19.6 | 8 | 34.81 | 72 | 54.5 | 23 |
| 31 | 3.30 | 36 | 82.1 | 27 | 6.55 | 15 | 77.9 | 20 | 30.93 | 11 | 18.8 | 8 | 34.09 | 63 | 52.2 | 27 |
| April 10 | 2.94 | 29 | 79.4 | 30 | 6.40 | 10 | 75.9 | 23 | 30.82 | 6 | 18.0 | 8 | 33.46 | 52 | 49.5 | 31 |
| 20 | 2.65 | 20 | 76.4 | 34 | 6.30 | 7 | 73.6 | 27 | 30.76 | 1 | 17.2 | 8 | 32.94 | 40 | 46.4 | 34 |
| 30 | 2.45 | 12 | 73.0 | 35 | 6.23 | 1 | 70.9 | 29 | 30.75 | 5 | 16.4 | 6 | 32.54 | 27 | 43.0 | 35 |
| Mai 10 | 2.33 | 3 | 69.5 | 40 | 6.22 | 5 | 68.0 | 30 | 30.80 | 9 | 15.8 | 6 | 32.27 | 13 | 39.5 | 36 |
| 20 | [19] 2.30 | 8 | 65.5 | 37 | 6.27 | 11 | 65.0 | 35 | 30.89 | 17 | 15.2 | 3 | 32.14 | 2 | 35.9 | 41 |
| 30 | 2.38 | 16 | 61.8 | 37 | [20] 6.38 | 15 | 61.5 | 32 | [21] 31.06 | 20 | 14.9 | 1 | [21] 32.16 | 16 | 31.8 | 36 |
| Juni 9 | 2.54 | 25 | 58.1 | 35 | 6.53 | 19 | 58.3 | 32 | 31.26 | 24 | 14.8 | 1 | 32.32 | 30 | 28.2 | 35 |
| 19 | 2.79 | 33 | 54.6 | 33 | 6.72 | 24 | 55.1 | 30 | 31.50 | 28 | 14.9 | 2 | 32.62 | 43 | 24.7 | 33 |
| 29 | 3.12 | 40 | 51.3 | 30 | 6.96 | 28 | 52.1 | 29 | 31.78 | 32 | 15.1 | 5 | 33.05 | 54 | 21.4 | 29 |
| Juli 9 | 3.52 | 46 | 48.3 | 26 | 7.24 | 30 | 49.2 | 25 | 32.10 | 33 | 15.6 | 7 | 33.59 | 65 | 18.5 | 26 |
| 19 | 3.98 | 51 | 45.7 | 22 | 7.54 | 33 | 46.7 | 22 | 32.43 | 35 | 16.3 | 9 | 34.24 | 72 | 15.9 | 21 |
| 29 | 4.49 | 55 | 43.5 | 16 | 7.87 | 33 | 44.5 | 18 | 32.78 | 36 | 17.2 | 9 | 34.96 | 79 | 13.8 | 15 |
| Aug. 8 | 5.04 | 56 | 41.9 | 10 | 8.20 | 34 | 42.7 | 14 | 33.14 | 36 | 18.1 | 11 | 35.75 | 83 | 12.3 | 10 |
| 18 | 5.60 | 56 | 40.9 | 4 | 8.54 | 34 | 41.3 | 8 | 33.50 | 35 | 19.2 | 12 | 36.58 | 84 | 11.3 | 3 |
| 28 | 6.16 | 56 | 40.5 | 2 | 8.88 | 34 | 40.5 | 2 | 33.85 | 35 | 20.4 | 12 | 37.42 | 82 | 11.0 | 2 |
| Sept. 7 | 6.72 | 52 | 40.7 | 8 | 9.22 | 31 | 40.3 | 3 | 34.20 | 33 | 21.6 | 13 | 38.24 | 79 | 11.2 | 9 |
| 17 | 7.24 | 48 | 41.5 | 15 | 9.53 | 29 | 40.6 | 8 | 34.53 | 31 | 22.9 | 13 | 39.03 | 73 | 12.1 | 15 |
| 27 | 7.72 | 43 | 43.0 | 20 | 9.82 | 27 | 41.4 | 13 | 34.84 | 29 | 24.2 | 12 | 39.76 | 63 | 13.6 | 20 |
| Okt. 7 | 8.15 | 35 | 45.0 | 24 | 10.09 | 23 | 42.7 | 18 | 35.13 | 26 | 25.4 | 12 | 40.39 | 53 | 15.6 | 26 |
| 17 | 8.50 | 28 | 47.4 | 29 | 10.32 | 20 | 44.5 | 21 | 35.39 | 23 | 26.6 | 12 | 40.92 | 40 | 18.2 | 29 |
| 27 | 8.78 | 20 | 50.3 | 31 | 10.52 | 16 | 46.6 | 25 | 35.62 | 21 | 27.8 | 11 | 41.32 | 27 | 21.1 | 31 |
| Nov. 6 | 8.98 | 10 | 53.4 | 33 | 10.68 | 12 | 49.1 | 26 | 35.83 | 17 | 28.9 | 11 | 41.59 | 11 | 24.2 | 33 |
| 16 | 9.08 | 2 | 56.7 | 33 | 10.80 | 7 | 51.7 | 27 | 36.00 | 14 | 30.0 | 10 | 41.70 | 4 | 27.5 | 33 |
| 26 | 9.10 | 10 | 60.0 | 32 | 10.87 | 3 | 54.4 | 27 | 36.14 | 10 | 31.0 | 9 | 41.66 | 19 | 30.8 | 32 |
| Dez. 6 | 9.00 | 17 | 63.2 | 30 | 10.90 | 1 | 57.1 | 26 | 36.24 | 5 | 31.9 | 8 | 41.47 | 33 | 34.0 | 30 |
| 16 | 8.83 | 25 | 66.2 | 26 | 10.89 | 6 | 59.7 | 24 | 36.29 | 1 | 32.7 | 7 | 41.14 | 47 | 37.0 | 27 |
| 26 | 8.58 | 33 | 68.8 | 23 | 10.83 | 10 | 62.1 | 21 | 36.30 | 3 | 33.4 | 6 | 40.67 | 59 | 39.7 | 22 |
| 36 | 8.25 | | 71.1 | | 10.73 | | 64.2 | | 36.27 | | 34.0 | | 40.08 | | 41.9 | |
| Mittl. Ort | 4.78 | | 72.9 | | 7.40 | | 69.8 | | 32.05 | | 12.1 | | 36.38 | | 43.3 | |
| | 141) | | | | 143) | | | | 144) | | | | 146) | | | |

| 1911 | 9 H. Camelop. $5^m.5$ AR. | | Dekl. + | | ε Persei. $3^m.0$ AR. | | Dekl. + | | ξ Persei. $4^m.0$ AR. | | Dekl. + | | γ Eridani. $3^m.0$ AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $3^h 49^m$ | | 60° 50′ | | $3^h 51^m$ | | 39° 45′ | | $3^h 53^m$ | | 35° 32′ | | $3^h 53^m$ | | 13° 45′ | |
| Jan. 0 | 32.85 | 16 | 70.0 | 18 | 52.85 | 7 | 22.4 | 9 | 11.41 | 6 | 18.0 | 7 | 53.03 | 7 | 42.3 | 14 |
| 10 | 32.69 | 23 | 71.8 | 14 | 52.78 | 11 | 23.3 | 7 | 11.35 | 10 | 18.7 | 5 | 52.96 | 9 | 43.7 | 11 |
| 20 | 32.46 | 29 | 73.2 | 10 | 52.67 | 15 | 24.0 | 4 | 11.25 | 14 | 19.2 | 3 | 52.87 | 12 | 44.8 | 9 |
| 30 | 32.17 | 33 | 74.2 | 6 | 52.52 | 18 | 24.4 | 1 | 11.11 | 17 | 19.5 | 1 | 52.75 | 15 | 45.7 | 6 |
| Febr. 9 | 31.84 | 35 | 74.8 | 1 | 52.34 | 20 | 24.5 | 1 | 10.94 | 19 | 19.6 | 1 | 52.60 | 16 | 46.3 | 4 |
| 19 | 31.49 | 37 | 74.9 | 4 | 52.14 | 22 | 24.4 | 3 | 10.75 | 19 | 19.5 | 4 | 52.44 | 17 | 46.7 | 0 |
| März 1 | 31.12 | 35 | 74.5 | 8 | 51.92 | 20 | 24.1 | 7 | 10.56 | 20 | 19.1 | 6 | 52.27 | 17 | 46.7 | 3 |
| 11 | 30.77 | 33 | 73.7 | 12 | 51.72 | 19 | 23.4 | 8 | 10.36 | 18 | 18.5 | 7 | 52.10 | 15 | 46.4 | 5 |
| 21 | 30.44 | 28 | 72.5 | 15 | 51.53 | 16 | 22.6 | 10 | 10.18 | 15 | 17.8 | 9 | 51.95 | 14 | 45.9 | 8 |
| 31 | 30.16 | 21 | 71.0 | 19 | 51.37 | 12 | 21.6 | 11 | 10.03 | 11 | 16.9 | 9 | 51.81 | 10 | 45.1 | 12 |
| April 10 | 29.95 | 14 | 69.1 | 20 | 51.25 | 8 | 20.5 | 12 | 9.92 | 7 | 16.0 | 10 | 51.71 | 8 | 43.9 | 14 |
| 20 | 29.81 | 6 | 67.1 | 21 | 51.17 | 2 | 19.3 | 12 | 9.85 | 2 | 15.0 | 9 | 51.63 | 3 | 42.5 | 16 |
| 30 | 29.75 | 3 | 65.0 | 21 | 51.15 | 4 | 18.1 | 11 | 9.83 | 4 | 14.1 | 9 | 51.60 | 2 | 40.9 | 19 |
| Mai 10 | 29.78 | 12 | 62.9 | 20 | 51.19 | 10 | 17.0 | 9 | 9.87 | 10 | 13.2 | 8 | 51.62 | 6 | 39.0 | 20 |
| 20 | 29.90 | 24 | 60.9 | 21 | 51.29 | 18 | 16.1 | 9 | 9.97 | 17 | 12.4 | 6 | 51.68 | 12 | 37.0 | 24 |
| 30 | 30.14 | 30 | 58.8 | 17 | 51.47 | 21 | 15.2 | 7 | 10.14 | 20 | 11.8 | 4 | 51.80 | 15 | 34.6 | 24 |
| Juni 9 | 30.44 | 37 | 57.1 | 14 | 51.68 | 26 | 14.5 | 3 | 10.34 | 25 | 11.4 | 1 | 51.95 | 19 | 32.2 | 24 |
| 19 | 30.81 | 44 | 55.7 | 11 | 51.94 | 31 | 14.2 | 2 | 10.59 | 29 | 11.3 | 0 | 52.14 | 22 | 29.8 | 23 |
| 29 | 31.25 | 48 | 54.6 | 7 | 52.25 | 34 | 14.0 | 2 | 10.88 | 32 | 11.3 | 3 | 52.36 | 26 | 27.5 | 23 |
| Juli 9 | 31.73 | 53 | 53.9 | 4 | 52.59 | 36 | 14.2 | 3 | 11.20 | 34 | 11.6 | 5 | 52.62 | 28 | 25.2 | 22 |
| 19 | 32.26 | 56 | 53.5 | 0 | 52.95 | 38 | 14.5 | 6 | 11.54 | 37 | 12.1 | 7 | 52.90 | 29 | 23.0 | 20 |
| 29 | 32.82 | 57 | 53.5 | 3 | 53.33 | 38 | 15.1 | 7 | 11.91 | 37 | 12.8 | 9 | 53.19 | 30 | 21.0 | 17 |
| Aug. 8 | 33.39 | 58 | 53.8 | 7 | 53.71 | 39 | 15.8 | 10 | 12.28 | 37 | 13.7 | 10 | 53.49 | 31 | 19.3 | 14 |
| 18 | 33.97 | 57 | 54.5 | 10 | 54.10 | 39 | 16.8 | 11 | 12.65 | 36 | 14.7 | 11 | 53.80 | 30 | 17.9 | 11 |
| 28 | 34.54 | 56 | 55.5 | 13 | 54.49 | 38 | 17.9 | 13 | 13.01 | 36 | 15.8 | 12 | 54.10 | 30 | 16.8 | 6 |
| Sept. 7 | 35.10 | 54 | 56.8 | 16 | 54.87 | 36 | 19.2 | 13 | 13.37 | 35 | 17.0 | 13 | 54.40 | 28 | 16.2 | 3 |
| 17 | 35.64 | 51 | 58.4 | 19 | 55.23 | 34 | 20.5 | 15 | 13.72 | 32 | 18.3 | 13 | 54.68 | 27 | 15.9 | 1 |
| 27 | 36.15 | 47 | 60.3 | 21 | 55.57 | 32 | 22.0 | 15 | 14.04 | 31 | 19.6 | 13 | 54.95 | 24 | 16.0 | 5 |
| Okt. 7 | 36.62 | 43 | 62.4 | 23 | 55.89 | 29 | 23.5 | 15 | 14.35 | 28 | 20.9 | 14 | 55.19 | 22 | 16.5 | 9 |
| 17 | 37.05 | 38 | 64.7 | 25 | 56.18 | 27 | 25.0 | 15 | 14.63 | 25 | 22.3 | 13 | 55.41 | 20 | 17.4 | 13 |
| 27 | 37.43 | 33 | 67.2 | 25 | 56.45 | 23 | 26.5 | 16 | 14.88 | 22 | 23.6 | 13 | 55.61 | 17 | 18.7 | 14 |
| Nov. 6 | 37.76 | 26 | 69.7 | 26 | 56.68 | 19 | 28.1 | 15 | 15.10 | 19 | 24.9 | 13 | 55.78 | 14 | 20.1 | 16 |
| 16 | 38.02 | 19 | 72.3 | 27 | 56.87 | 15 | 29.6 | 15 | 15.29 | 14 | 26.2 | 12 | 55.92 | 10 | 21.7 | 18 |
| 26 | 38.21 | 12 | 75.0 | 25 | 57.02 | 11 | 31.1 | 14 | 15.43 | 11 | 27.4 | 12 | 56.02 | 7 | 23.5 | 18 |
| Dez. 6 | 38.33 | 4 | 77.5 | 24 | 57.13 | 6 | 32.5 | 13 | 15.54 | 6 | 28.6 | 10 | 56.09 | 3 | 25.3 | 17 |
| 16 | 38.37 | 3 | 79.9 | 23 | 57.19 | 1 | 33.8 | 11 | 15.60 | 1 | 29.6 | 10 | 56.12 | 0 | 27.0 | 16 |
| 26 | 38.34 | 12 | 82.2 | 19 | 57.20 | 5 | 34.9 | 10 | 15.61 | 3 | 30.6 | 8 | 56.12 | 5 | 28.6 | 15 |
| 36 | 38.22 | | 84.1 | | 57.15 | | 35.9 | | 15.58 | | 31.4 | | 56.07 | | 30.1 | |
| Mittl. Ort | 32.33 | | 56.5 | | 52.63 | | 12.5 | | 11.20 | | 8.9 | | 52.57 | | 40.4 | |
| | 145) | | | | 147) | | | | 148) | | | | 149) | | | |

| 1911 | λ Tauri. ($3^m.5$). AR. | | Dekl. + | | ν Tauri. $3^m.9$. AR. | | Dekl. + | | c Persei. $4^m.0$. AR. | | Dekl. + | | $o^1$ Eridani. $4^m.1$. AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $3^h\ 55^m$ | | $12°\ 14'$ | | $3^h\ 58^m$ | | $5°\ 44'$ | | $4^h\ 2^m$ | | $47°\ 28'$ | | $4^h\ 7^m$ | | $7°\ 3'$ | |
| Jan. 0 | 45.08 | | 26.1 | | 25.51 | | 37.2 | | 12.07 | | 43.6 | | 31.64 | | 68.7 | |
| | | 4 | | 4 | | 4 | | 7 | | 7 | | 13 | | 5 | | 12 |
| 10 | 45.04 | | 25.7 | | 25.47 | | 36.5 | | 12.00 | | 44.9 | | 31.59 | | 69.9 | |
| | | 8 | | 3 | | 8 | | 6 | | 13 | | 10 | | 7 | | 10 |
| 20 | 44.96 | | 25.4 | | 25.39 | | 35.9 | | 11.87 | | 45.9 | | 31.52 | | 70.9 | |
| | | 11 | | 3 | | 11 | | 5 | | 18 | | 8 | | 11 | | 8 |
| 30 | 44.85 | | 25.1 | | 25.28 | | 35.4 | | 11.69 | | 46.7 | | 31.41 | | 71.7 | |
| | | 13 | | 3 | | 13 | | 4 | | 21 | | 4 | | 14 | | 6 |
| Febr. 9 | 44.72 | | 24.8 | | 25.15 | | 35.0 | | 11.48 | | 47.1 | | 31.27 | | 72.3 | |
| | | 15 | | 3 | | 15 | | 3 | | 24 | | 0 | | 16 | | 4 |
| 19 | 44.57 | | 24.5 | | 25.00 | | 34.7 | | 11.24 | | 47.1 | | 31.11 | | 72.7 | |
| | | 16 | | 3 | | 15 | | 3 | | 24 | | 3 | | 16 | | 1 |
| März 1 | 44.41 | | 24.2 | | 24.85 | | 34.4 | | 11.00 | | 46.8 | | 30.95 | | 72.8 | |
| | | 16 | | 2 | | 16 | | 1 | | 25 | | 5 | | 17 | | 0 |
| 11 | 44.25 | | 24.0 | | 24.69 | | 34.3 | | 10.75 | | 46.3 | | 30.78 | | 72.8 | |
| | | 14 | | 2 | | 15 | | 0 | | 23 | | 9 | | 15 | | 4 |
| 21 | 44.11 | | 23.8 | | 24.54 | | 34.3 | | 10.52 | | 45.4 | | 30.63 | | 72.4 | |
| | | 13 | | 1 | | 12 | | 2 | | 19 | | 12 | | 14 | | 5 |
| 31 | 43.98 | | 23.7 | | 24.42 | | 34.5 | | 10.33 | | 44.2 | | 30.49 | | 71.9 | |
| | | 9 | | 1 | | 10 | | 3 | | 16 | | 13 | | 11 | | 8 |
| April 10 | 43.89 | | 23.8 | | 24.32 | | 34.8 | | 10.17 | | 42.9 | | 30.38 | | 71.1 | |
| | | 6 | | 1 | | 6 | | 5 | | 10 | | 15 | | 7 | | 11 |
| 20 | 43.83 | | 23.9 | | 24.26 | | 35.3 | | 10.07 | | 41.4 | | 30.31 | | 70.0 | |
| | | 2 | | 3 | | 2 | | 6 | | 4 | | 15 | | 4 | | 13 |
| 30 | 43.81 | | 24.2 | | 24.24 | | 35.9 | | 10.03 | | 39.9 | | 30.27 | | 68.7 | |
| | | 3 | | 4 | | 2 | | 8 | | 3 | | 15 | | 1 | | 15 |
| Mai 10 | 43.84 | | 24.6 | | 24.26 | | 36.7 | | 10.06 | | 38.4 | | 30.28 | | 67.2 | |
| | | 8 | | 6 | | 7 | | 10 | | 9 | | 14 | | 5 | | 16 |
| 20 | 43.92 | | 25.2 | | 24.33 | | 37.7 | | 10.15 | | 37.0 | | 30.33 | | 65.6 | |
| | 22 | 13 | | 9 | 23 | 13 | | 13 | 24 | 17 | | 14 | 25 | 11 | | 20 |
| 30 | 44.05 | | 26.1 | | 24.46 | | 39.0 | | 10.32 | | 35.6 | | 30.44 | | 63.6 | |
| | | 17 | | 10 | | 17 | | 13 | | 22 | | 10 | | 15 | | 20 |
| Juni 9 | 44.22 | | 27.1 | | 24.63 | | 40.3 | | 10.54 | | 34.6 | | 30.59 | | 61.6 | |
| | | 21 | | 11 | | 20 | | 14 | | 28 | | 9 | | 18 | | 21 |
| 19 | 44.43 | | 28.2 | | 24.83 | | 41.7 | | 10.82 | | 33.7 | | 30.77 | | 59.5 | |
| | | 24 | | 12 | | 23 | | 16 | | 32 | | 6 | | 22 | | 21 |
| 29 | 44.67 | | 29.4 | | 25.06 | | 43.3 | | 11.14 | | 33.1 | | 30.99 | | 57.4 | |
| | | 27 | | 13 | | 26 | | 15 | | 37 | | 3 | | 24 | | 21 |
| Juli 9 | 44.94 | | 30.7 | | 25.32 | | 44.8 | | 11.51 | | 32.8 | | 31.23 | | 55.3 | |
| | | 30 | | 14 | | 28 | | 16 | | 40 | | 1 | | 27 | | 19 |
| 19 | 45.24 | | 32.1 | | 25.60 | | 46.4 | | 11.91 | | 32.7 | | 31.50 | | 53.4 | |
| | | 31 | | 13 | | 30 | | 15 | | 41 | | 2 | | 29 | | 18 |
| 29 | 45.55 | | 33.4 | | 25.90 | | 47.9 | | 12.32 | | 32.9 | | 31.79 | | 51.6 | |
| | | 31 | | 13 | | 31 | | 14 | | 44 | | 5 | | 30 | | 17 |
| Aug. 8 | 45.86 | | 34.7 | | 26.21 | | 49.3 | | 12.76 | | 33.4 | | 32.09 | | 49.9 | |
| | | 31 | | 13 | | 30 | | 14 | | 43 | | 8 | | 30 | | 14 |
| 18 | 46.17 | | 36.0 | | 26.51 | | 50.7 | | 13.19 | | 34.2 | | 32.39 | | 48.5 | |
| | | 31 | | 12 | | 31 | | 11 | | 43 | | 9 | | 30 | | 11 |
| 28 | 46.48 | | 37.2 | | 26.82 | | 51.8 | | 13.62 | | 35.1 | | 32.69 | | 47.4 | |
| | | 31 | | 10 | | 30 | | 9 | | 43 | | 12 | | 30 | | 8 |
| Sept. 7 | 46.79 | | 38.2 | | 27.12 | | 52.7 | | 14.05 | | 36.3 | | 32.99 | | 46.6 | |
| | | 29 | | 8 | | 28 | | 7 | | 41 | | 13 | | 28 | | 4 |
| 17 | 47.08 | | 39.0 | | 27.40 | | 53.4 | | 14.46 | | 37.6 | | 33.27 | | 46.2 | |
| | | 27 | | 6 | | 27 | | 5 | | 39 | | 15 | | 27 | | 1 |
| 27 | 47.35 | | 39.6 | | 27.67 | | 53.9 | | 14.85 | | 39.1 | | 33.54 | | 46.1 | |
| | | 26 | | 5 | | 26 | | 2 | | 37 | | 16 | | 25 | | 3 |
| Okt. 7 | 47.61 | | 40.1 | | 27.93 | | 54.1 | | 15.22 | | 40.7 | | 33.79 | | 46.4 | |
| | | 24 | | 3 | | 23 | | 0 | | 34 | | 18 | | 24 | | 6 |
| 17 | 47.85 | | 40.4 | | 28.16 | | 54.1 | | 15.56 | | 42.5 | | 34.03 | | 47.0 | |
| | | 21 | | 1 | | 21 | | 3 | | 31 | | 18 | | 21 | | 9 |
| 27 | 48.06 | | 40.5 | | 28.37 | | 53.8 | | 15.87 | | 44.3 | | 34.24 | | 47.9 | |
| | | 18 | | 0 | | 18 | | 4 | | 27 | | 19 | | 18 | | 11 |
| Nov. 6 | 48.24 | | 40.5 | | 28.55 | | 53.4 | | 16.14 | | 46.2 | | 34.42 | | 49.0 | |
| | | 16 | | 1 | | 16 | | 5 | | 22 | | 18 | | 15 | | 13 |
| 16 | 48.40 | | 40.4 | | 28.71 | | 52.9 | | 16.36 | | 48.0 | | 34.57 | | 50.3 | |
| | | 13 | | 3 | | 12 | | 6 | | 18 | | 19 | | 13 | | 14 |
| 26 | 48.53 | | 40.1 | | 28.83 | | 52.3 | | 16.54 | | 49.9 | | 34.70 | | 51.7 | |
| | | 9 | | 3 | | 9 | | 7 | | 13 | | 19 | | 8 | | 15 |
| Dez. 6 | 48.62 | | 39.8 | | 28.92 | | 51.6 | | 16.67 | | 51.8 | | 34.78 | | 53.2 | |
| | | 6 | | 3 | | 5 | | 8 | | 7 | | 17 | | 5 | | 14 |
| 16 | 48.68 | | 39.5 | | 28.97 | | 50.8 | | 16.74 | | 53.5 | | 34.83 | | 54.6 | |
| | | 2 | | 4 | | 2 | | 7 | | 2 | | 16 | | 2 | | 14 |
| 26 | 48.70 | | 39.1 | | 28.99 | | 50.1 | | 16.76 | | 55.1 | | 34.85 | | 56.0 | |
| | | 2 | | 3 | | 2 | | 7 | | 5 | | 14 | | 2 | | 13 |
| 36 | 48.68 | | 38.8 | | 28.97 | | 49.4 | | 16.71 | | 56.5 | | 34.83 | | 57.3 | |
| Mittl. Ort | 44.84 | | 22.1 | | 25.22 | | 34.5 | | 11.72 | | 32.5 | | 31.21 | | 68.8 | |
| | 150) | | | | 151) | | | | 152) | | | | 154) | | | |

| 1911 | α Horologii. $3^m.7$. | | | | α Reticuli. $3^m.2$. | | | | $υ^4$ Eridani. $3^m.3$. | | | | δ Tauri. $3^m.8$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. — | | AR. | | Dekl. — | | AR. | | Dekl. — | | AR. | | Dekl. + | |
| | $4^h\ 11^m$ | | 42° 30′ | | $4^h\ 13^m$ | | 62° 41′ | | $4^h\ 14^m$ | | 34° 0′ | | $4^h\ 17^m$ | | 17° 20′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | | s | | ″ | |
| Jan. 0 | 4.24 | 12 | 54.6 | 22 | 19.09 | 29 | 55.1 | 24 | 32.43 | 9 | 59.3 | 21 | 48.32 | 3 | 9.3 | 1 |
| 10 | 4.12 | 18 | 56.8 | 18 | 18.80 | 36 | 57.5 | 19 | 32.34 | 14 | 61.4 | 17 | 48.29 | 6 | 9.2 | 1 |
| 20 | 3.94 | 20 | 58.6 | 13 | 18.44 | 40 | 59.4 | 13 | 32.20 | 16 | 63.1 | 13 | 48.23 | 10 | 9.1 | 2 |
| 30 | 3.74 | 24 | 59.9 | 9 | 18.04 | 45 | 60.7 | 8 | 32.04 | 20 | 64.4 | 10 | 48.13 | 13 | 8.9 | 2 |
| Febr. 9 | 3.50 | 25 | 60.8 | 4 | 17.59 | 47 | 61.5 | 3 | 31.84 | 21 | 65.4 | 4 | 48.00 | 15 | 8.7 | 2 |
| 19 | 3.25 | 26 | 61.2 | 1 | 17.12 | 48 | 61.8 | 3 | 31.63 | 22 | 65.8 | 0 | 47.85 | 16 | 8.5 | 2 |
| März 1 | 2.99 | 27 | 61.1 | 6 | 16.64 | 48 | 61.5 | 9 | 31.41 | 23 | 65.8 | 5 | 47.69 | 17 | 8.3 | 2 |
| 11 | 2.72 | 25 | 60.5 | 11 | 16.16 | 45 | 60.6 | 14 | 31.18 | 21 | 65.3 | 9 | 47.52 | 16 | 8.1 | 3 |
| 21 | 2.47 | 23 | 59.4 | 16 | 15.71 | 42 | 59.2 | 19 | 30.97 | 20 | 64.4 | 13 | 47.36 | 14 | 7.8 | 2 |
| 31 | 2.24 | 19 | 57.8 | 20 | 15.29 | 38 | 57.3 | 23 | 30.77 | 16 | 63.1 | 17 | 47.22 | 11 | 7.6 | 1 |
| April 10 | 2.05 | 16 | 55.8 | 23 | 14.91 | 31 | 55.0 | 27 | 30.61 | 13 | 61.4 | 21 | 47.11 | 8 | 7.5 | 1 |
| 20 | 1.89 | 11 | 53.5 | 26 | 14.60 | 24 | 52.3 | 31 | 30.48 | 9 | 59.3 | 23 | 47.03 | 3 | 7.4 | 0 |
| 30 | 1.78 | 5 | 50.9 | 29 | 14.36 | 17 | 49.2 | 33 | 30.39 | 3 | 57.0 | 27 | 47.00 | 1 | 7.4 | 1 |
| Mai 10 | 1.73 | 0 | 48.0 | 32 | 14.19 | 8 | 45.9 | 35 | 30.36 | 1 | 54.3 | 29 | 47.01 | 6 | 7.5 | 3 |
| 20 | 1.73 | 7 | 44.8 | 36 | 14.11 | 1 | 42.4 | 40 | 30.37 | 7 | 51.4 | 33 | 47.07 | 12 | 7.8 | 5 |
| 30 | 26 1.80 | 11 | 41.2 | 34 | 27 14.12 | 10 | 38.4 | 36 | 27 30.44 | 12 | 48.1 | 31 | 28 47.19 | 16 | 8.3 | 5 |
| Juni 9 | 1.91 | 17 | 37.8 | 33 | 14.22 | 18 | 34.8 | 36 | 30.56 | 17 | 45.0 | 31 | 47.35 | 19 | 8.8 | 8 |
| 19 | 2.08 | 22 | 34.5 | 32 | 14.40 | 25 | 31.2 | 34 | 30.73 | 21 | 41.9 | 30 | 47.54 | 23 | 9.6 | 8 |
| 29 | 2.30 | 26 | 31.3 | 30 | 14.65 | 33 | 27.8 | 32 | 30.94 | 25 | 38.9 | 29 | 47.77 | 27 | 10.4 | 10 |
| Juli 9 | 2.56 | 30 | 28.3 | 28 | 14.98 | 39 | 24.6 | 28 | 31.19 | 28 | 36.0 | 26 | 48.04 | 29 | 11.4 | 10 |
| 19 | 2.86 | 32 | 25.5 | 24 | 15.37 | 44 | 21.8 | 25 | 31.47 | 30 | 33.4 | 24 | 48.33 | 30 | 12.4 | 11 |
| 29 | 3.18 | 35 | 23.1 | 19 | 15.81 | 48 | 19.3 | 19 | 31.77 | 32 | 31.0 | 19 | 48.63 | 31 | 13.5 | 11 |
| Aug. 8 | 3.53 | 35 | 21.2 | 15 | 16.29 | 50 | 17.4 | 14 | 32.09 | 33 | 29.1 | 15 | 48.94 | 32 | 14.6 | 11 |
| 18 | 3.88 | 36 | 19.7 | 9 | 16.79 | 52 | 16.0 | 8 | 32.42 | 33 | 27.6 | 11 | 49.26 | 33 | 15.7 | 10 |
| 28 | 4.24 | 36 | 18.8 | 4 | 17.31 | 52 | 15.2 | 2 | 32.75 | 33 | 26.5 | 5 | 49.59 | 31 | 16.7 | 9 |
| Sept. 7 | 4.60 | 34 | 18.4 | 2 | 17.83 | 51 | 15.0 | 5 | 33.08 | 32 | 26.0 | 1 | 49.90 | 31 | 17.6 | 9 |
| 17 | 4.94 | 33 | 18.6 | 8 | 18.34 | 47 | 15.5 | 11 | 33.40 | 30 | 26.1 | 5 | 50.21 | 29 | 18.5 | 7 |
| 27 | 5.27 | 30 | 19.4 | 13 | 18.81 | 44 | 16.6 | 17 | 33.70 | 28 | 26.6 | 11 | 50.50 | 28 | 19.2 | 5 |
| Okt. 7 | 5.57 | 27 | 20.7 | 18 | 19.25 | 38 | 18.3 | 22 | 33.98 | 25 | 27.7 | 16 | 50.78 | 26 | 19.7 | 4 |
| 17 | 5.84 | 23 | 22.5 | 23 | 19.63 | 31 | 20.5 | 27 | 34.23 | 23 | 29.3 | 20 | 51.04 | 24 | 20.1 | 3 |
| 27 | 6.07 | 20 | 24.8 | 27 | 19.94 | 24 | 23.2 | 30 | 34.46 | 19 | 31.3 | 23 | 51.28 | 21 | 20.4 | 2 |
| Nov. 6 | 6.27 | 14 | 27.5 | 28 | 20.18 | 17 | 26.2 | 32 | 34.65 | 15 | 33.6 | 26 | 51.49 | 19 | 20.6 | 1 |
| 16 | 6.41 | 10 | 30.3 | 30 | 20.35 | 7 | 29.4 | 33 | 34.80 | 11 | 36.2 | 27 | 51.68 | 15 | 20.7 | 0 |
| 26 | 6.51 | 5 | 33.3 | 30 | 20.42 | 0 | 32.7 | 34 | 34.91 | 7 | 38.9 | 27 | 51.83 | 12 | 20.7 | 1 |
| Dez. 6 | 6.56 | 0 | 36.3 | 29 | 20.42 | 9 | 36.1 | 32 | 34.98 | 2 | 41.6 | 27 | 51.95 | 8 | 20.6 | 1 |
| 16 | 6.56 | 5 | 39.2 | 27 | 20.33 | 18 | 39.3 | 29 | 35.00 | 3 | 44.3 | 25 | 52.03 | 4 | 20.5 | 1 |
| 26 | 6.51 | 11 | 41.9 | 24 | 20.15 | 26 | 42.2 | 26 | 34.97 | 7 | 46.8 | 23 | 52.07 | 0 | 20.4 | 1 |
| 36 | 6.40 | | 44.3 | | 19.89 | | 44.8 | | 34.90 | | 49.1 | | 52.07 | | 20.3 | |
| Mittl. Ort | 3.05 | | 48.5 | | 16.51 | | 47.1 | | 31.51 | | 54.8 | | 48.01 | | 4.0 | |
| | 155) | | | | 156) | | | | 160) | | | | 162) | | | |

| 1911 | ε Tauri. $3^m.5$. | | | | α Tauri. $1^m$. | | | | ν Eridani. $3^m.8$. | | | | α Doradus. $3^m.2$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. — | | AR. | | Dekl. — | |
| | $4^h 23^m$ | | 18° 59′ | | $4^h 30^m$ | | 16° 19′ | | $4^h 31^m$ | | 3° 31′ | | $4^h 32^m$ | | 55° 13′ | |
| Jan. 0 | 25.40 | 2 | 7.2 | 0 | 49.08 | 1 | 57.0 | 1 | 52.74 | 2 | 60.2 | 11 | 6.36 | 19 | 48.4 | 25 |
| 10 | 25.38 | 6 | 7.2 | 1 | 49.07 | 6 | 56.9 | 2 | 52.72 | 7 | 61.3 | 10 | 6.17 | 24 | 50.9 | 21 |
| 20 | 25.32 | 10 | 7.1 | 1 | 49.01 | 9 | 56.7 | 2 | 52.65 | 10 | 62.3 | 8 | 5.93 | 29 | 53.0 | 17 |
| 30 | 25.22 | 13 | 7.0 | 1 | 48.92 | 12 | 56.5 | 2 | 52.55 | 12 | 63.1 | 6 | 5.64 | 33 | 54.7 | 11 |
| Febr. 9 | 25.09 | 15 | 6.9 | 2 | 48.80 | 15 | 56.3 | 2 | 52.43 | 15 | 63.7 | 5 | 5.31 | 36 | 55.8 | 6 |
| 19 | 24.94 | 17 | 6.7 | 2 | 48.65 | 17 | 56.1 | 2 | 52.28 | 16 | 64.2 | 2 | 4.95 | 37 | 56.4 | 0 |
| März 1 | 24.77 | 17 | 6.5 | 3 | 48.48 | 17 | 55.9 | 2 | 52.12 | 17 | 64.4 | 0 | 4.58 | 38 | 56.4 | 5 |
| 11 | 24.60 | 16 | 6.2 | 2 | 48.31 | 16 | 55.7 | 1 | 51.95 | 16 | 64.4 | 1 | 4.20 | 36 | 55.9 | 10 |
| 21 | 24.44 | 14 | 6.0 | 2 | 48.15 | 14 | 55.6 | 2 | 51.79 | 15 | 64.3 | 4 | 3.84 | 34 | 54.9 | 16 |
| 31 | 24.30 | 12 | 5.8 | 2 | 48.01 | 12 | 55.4 | 1 | 51.64 | 12 | 63.9 | 6 | 3.50 | 31 | 53.3 | 20 |
| April 10 | 24.18 | 8 | 5.6 | 2 | 47.89 | 9 | 55.3 | 0 | 51.52 | 9 | 63.3 | 9 | 3.19 | 26 | 51.3 | 24 |
| 20 | 24.10 | 4 | 5.4 | 1 | 47.80 | 4 | 55.3 | 0 | 51.43 | 5 | 62.4 | 10 | 2.93 | 20 | 48.9 | 28 |
| 30 | 24.06 | 1 | 5.3 | 0 | 47.76 | 0 | 55.3 | 2 | 51.38 | 1 | 61.4 | 12 | 2.73 | 14 | 46.1 | 30 |
| Mai 10 | 24.07 | 5 | 5.3 | 2 | 47.76 | 4 | 55.5 | 3 | 51.37 | 3 | 60.2 | 14 | 2.59 | 7 | 43.1 | 34 |
| 20 | 24.12 | 12 | 5.5 | 4 | 47.80 | 9 | 55.8 | 5 | 51.40 | 8 | 58.8 | 16 | 2.52 | 1 | 39.7 | 34 |
| 30 | 24.24 | 15 | 5.9 | 4 | 47.89 | 16 | 56.3 | 6 | 51.48 | 13 | 57.2 | 19 | 2.51 | 8 | 36.3 | 39 |
| Juni 9 | 24.39 | 20 | 6.3 | 6 | $^{31}$48.05 | 18 | 56.9 | 7 | $^{31}$51.61 | 16 | 55.3 | 18 | $^{31}$2.59 | 14 | 32.4 | 35 |
| 19 | 24.59 | 23 | 6.9 | 8 | 48.23 | 23 | 57.6 | 9 | 51.77 | 20 | 53.5 | 19 | 2.73 | 21 | 28.9 | 35 |
| 29 | 24.82 | 26 | 7.7 | 9 | 48.46 | 25 | 58.5 | 9 | 51.97 | 23 | 51.6 | 18 | 2.94 | 26 | 25.4 | 32 |
| Juli 9 | 25.08 | 29 | 8.6 | 9 | 48.71 | 28 | 59.4 | 10 | 52.20 | 26 | 49.8 | 18 | 3.20 | 31 | 22.2 | 30 |
| 19 | 25.37 | 30 | 9.5 | 10 | 48.99 | 29 | 60.4 | 11 | 52.46 | 28 | 48.0 | 18 | 3.51 | 36 | 19.2 | 26 |
| 29 | 25.67 | 31 | 10.5 | 10 | 49.28 | 31 | 61.5 | 10 | 52.74 | 29 | 46.2 | 15 | 3.87 | 39 | 16.6 | 21 |
| Aug. 8 | 25.98 | 33 | 11.5 | 10 | 49.59 | 32 | 62.5 | 10 | 53.03 | 29 | 44.7 | 14 | 4.26 | 42 | 14.5 | 16 |
| 18 | 26.31 | 32 | 12.5 | 10 | 49.91 | 32 | 63.5 | 10 | 53.32 | 30 | 43.3 | 10 | 4.68 | 43 | 12.9 | 11 |
| 28 | 26.63 | 32 | 13.5 | 9 | 50.23 | 31 | 64.5 | 8 | 53.62 | 30 | 42.3 | 8 | 5.11 | 44 | 11.8 | 4 |
| Sept. 7 | 26.95 | 32 | 14.4 | 8 | 50.54 | 31 | 65.3 | 7 | 53.92 | 29 | 41.5 | 5 | 5.55 | 42 | 11.4 | 1 |
| 17 | 27.27 | 30 | 15.2 | 7 | 50.85 | 30 | 66.0 | 6 | 54.21 | 28 | 41.0 | 2 | 5.97 | 41 | 11.5 | 9 |
| 27 | 27.57 | 28 | 15.9 | 6 | 51.15 | 28 | 66.6 | 5 | 54.49 | 27 | 40.8 | 2 | 6.38 | 39 | 12.4 | 14 |
| Okt. 7 | 27.85 | 26 | 16.5 | 4 | 51.43 | 27 | 67.1 | 3 | 54.76 | 25 | 41.0 | 5 | 6.77 | 34 | 13.8 | 20 |
| 17 | 28.11 | 25 | 16.9 | 4 | 51.70 | 25 | 67.4 | 2 | 55.01 | 23 | 41.5 | 7 | 7.11 | 30 | 15.8 | 24 |
| 27 | 28.36 | 22 | 17.3 | 2 | 51.95 | 22 | 67.6 | 0 | 55.24 | 20 | 42.2 | 10 | 7.41 | 24 | 18.2 | 28 |
| Nov. 6 | 28.58 | 19 | 17.5 | 1 | 52.17 | 20 | 67.6 | 1 | 55.44 | 18 | 43.2 | 12 | 7.65 | 19 | 21.0 | 31 |
| 16 | 28.77 | 16 | 17.6 | 1 | 52.37 | 16 | 67.5 | 1 | 55.62 | 15 | 44.4 | 13 | 7.84 | 12 | 24.1 | 33 |
| 26 | 28.93 | 13 | 17.7 | 1 | 52.53 | 13 | 67.4 | 1 | 55.77 | 12 | 45.7 | 13 | 7.96 | 5 | 27.4 | 33 |
| Dez. 6 | 29.06 | 9 | 17.8 | 0 | 52.66 | 10 | 67.3 | 2 | 55.89 | 8 | 47.0 | 14 | 8.01 | 2 | 30.7 | 33 |
| 16 | 29.15 | 4 | 17.8 | 0 | 52.76 | 5 | 67.1 | 1 | 55.97 | 3 | 48.4 | 13 | 7.99 | 8 | 34.0 | 30 |
| 26 | 29.19 | 1 | 17.8 | 1 | 52.81 | 1 | 67.0 | 2 | 56.00 | 0 | 49.7 | 12 | 7.91 | 16 | 37.0 | 28 |
| 36 | 29.20 | | 17.7 | | 52.82 | | 66.8 | | 56.00 | | 50.9 | | 7.75 | | 39.8 | |
| Mittl. Ort | 25.07 | | 1.5 | | 48.72 | | 51.8 | | 52.27 | | 61.8 | | 4.40 | | 42.7 | |
| | 164) | | | | 168) | | | | 169) | | | | 171) | | | |

| 1911 | 53 Eridani. $3^m.9$. | | | | Gr. 848. $6^m.2$. | | | | τ Tauri. $4^m.2$. | | | | 4 Camelop. $5^m.5$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. − | | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. + | |
| | $4^h 34^m$ | | 14° 28′ | | $4^h 36^m$ | | 75° 46′ | | $4^h 36^m$ | | 22° 47′ | | $4^h 40^m$ | | 56° 35′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | | s | | ″ | |
| Jan. 0 | 6.81 | | 39.2 | | 52.63 | | 64.0 | | 54.47 | | 19.3 | | 35.85 | | 71.6 | |
| 10 | 6.77 | 4 | 40.8 | 16 | 52.38 | 25 | 66.7 | 27 | 54.46 | 1 | 19.4 | 1 | 35.79 | 6 | 73.5 | 19 |
| 20 | 6.70 | 7 | 42.2 | 14 | 51.97 | 41 | 69.0 | 23 | 54.40 | 6 | 19.6 | 2 | 35.67 | 12 | 75.2 | 17 |
| 30 | 6.59 | 11 | 43.3 | 11 | 51.43 | 54 | 70.9 | 19 | 54.31 | 9 | 19.6 | 0 | 35.47 | 20 | 76.5 | 13 |
| Febr. 9 | 6.45 | 14 | 44.2 | 9 | 50.77 | 66 | 72.3 | 14 | 54.18 | 13 | 19.6 | 0 | 35.23 | 24 | 77.5 | 10 |
| 19 | 6.29 | 16 | 44.7 | 5 | 50.03 | 74 | 73.2 | 9 | 54.03 | 15 | 19.6 | 0 | 34.94 | 29 | 78.1 | 6 |
| März 1 | 6.12 | 17 | 45.0 | 3 | 49.25 | 78 | 73.6 | 4 | 53.86 | 17 | 19.5 | 1 | 34.63 | 31 | 78.3 | 2 |
| 11 | 5.94 | 18 | 44.9 | 1 | 48.47 | 78 | 73.4 | 2 | 53.69 | 17 | 19.2 | 3 | 34.31 | 32 | 78.1 | 2 |
| 21 | 5.77 | 17 | 44.5 | 4 | 47.70 | 77 | 72.7 | 7 | 53.52 | 17 | 19.0 | 2 | 34.00 | 31 | 77.5 | 6 |
| 31 | 5.61 | 16 | 43.8 | 7 | 47.00 | 70 | 71.4 | 13 | 53.36 | 16 | 18.7 | 3 | 33.71 | 29 | 76.5 | 10 |
| April 10 | 5.47 | 14 | 42.9 | 9 | 46.40 | 60 | 69.7 | 17 | 53.23 | 13 | 18.4 | 3 | 33.47 | 24 | 75.2 | 13 |
| 20 | 5.37 | 10 | 41.6 | 13 | 45.93 | 47 | 67.7 | 20 | 53.14 | 9 | 18.1 | 3 | 33.29 | 18 | 73.6 | 16 |
| 30 | 5.30 | 7 | 40.1 | 15 | 45.60 | 33 | 65.3 | 24 | 53.09 | 5 | 17.8 | 3 | 33.18 | 11 | 71.9 | 17 |
| Mai 10 | 5.28 | 2 | 38.4 | 17 | 45.43 | 17 | 62.8 | 25 | 53.08 | 1 | 17.6 | 2 | 33.14 | 4 | 70.1 | 18 |
| 20 | 5.30 | 2 | 36.4 | 20 | 45.42 | 1 | 60.2 | 26 | 53.13 | 5 | 17.6 | 0 | 33.17 | 3 | 68.2 | 19 |
| 30 | 5.37 | 7 | 34.2 | 22 | 45.58 | 16 | 57.6 | 26 | 53.22 | 9 | 17.6 | 0 | 33.28 | 11 | 66.4 | 18 |
| Juni 9 | 5.49 | 12 | 31.8 | 24 | 45.95 | 37 | 54.8 | 28 | 53.38 | 16 | 17.8 | 2 | 33.49 | 21 | 64.5 | 19 |
| 19 | 5.64 | 15 | 29.5 | 23 | 46.44 | 49 | 52.4 | 24 | 53.56 | 18 | 18.2 | 4 | 33.76 | 27 | 63.0 | 15 |
| 29 | 5.84 | 20 | 27.1 | 24 | 47.08 | 64 | 50.3 | 21 | 53.78 | 22 | 18.6 | 4 | 34.09 | 33 | 61.6 | 14 |
| Juli 9 | 6.06 | 22 | 24.8 | 23 | 47.83 | 75 | 48.5 | 18 | 54.04 | 26 | 19.2 | 6 | 34.48 | 39 | 60.5 | 11 |
| 19 | 6.31 | 25 | 22.7 | 21 | 48.70 | 87 | 47.1 | 14 | 54.33 | 29 | 19.9 | 7 | 34.91 | 43 | 59.7 | 8 |
| 29 | 6.59 | 28 | 20.6 | 21 | 49.65 | 95 | 46.0 | 11 | 54.63 | 30 | 20.7 | 8 | 35.38 | 47 | 59.2 | 5 |
| Aug. 8 | 6.87 | 28 | 18.9 | 17 | 50.67 | 102 | 45.3 | 7 | 54.95 | 32 | 21.6 | 9 | 35.87 | 49 | 58.9 | 3 |
| 18 | 7.17 | 30 | 17.4 | 15 | 51.74 | 107 | 45.0 | 3 | 55.28 | 33 | 22.4 | 8 | 36.39 | 52 | 59.0 | 1 |
| 28 | 7.47 | 30 | 16.2 | 12 | 52.83 | 109 | 45.1 | 1 | 55.61 | 33 | 23.2 | 8 | 36.91 | 52 | 59.4 | 4 |
| Sept. 7 | 7.77 | 30 | 15.5 | 7 | 53.92 | 109 | 45.7 | 6 | 55.94 | 33 | 24.0 | 8 | 37.43 | 52 | 60.0 | 6 |
| 17 | 8.06 | 29 | 15.2 | 3 | 55.00 | 108 | 46.7 | 10 | 56.26 | 32 | 24.8 | 8 | 37.95 | 52 | 60.9 | 9 |
| 27 | 8.34 | 28 | 15.2 | 0 | 56.05 | 105 | 48.0 | 13 | 56.58 | 32 | 25.5 | 7 | 38.45 | 50 | 62.0 | 11 |
| Okt. 7 | 8.61 | 27 | 15.7 | 5 | 57.06 | 101 | 49.7 | 17 | 56.87 | 29 | 26.0 | 5 | 38.94 | 49 | 63.4 | 14 |
| 17 | 8.86 | 25 | 16.6 | 9 | 58.00 | 94 | 51.8 | 21 | 57.16 | 29 | 26.5 | 5 | 39.39 | 45 | 65.0 | 16 |
| 27 | 9.09 | 23 | 17.9 | 13 | 58.86 | 86 | 54.2 | 24 | 57.42 | 26 | 27.0 | 5 | 39.81 | 42 | 66.8 | 18 |
| Nov. 6 | 9.29 | 20 | 19.4 | 15 | 59.62 | 76 | 56.8 | 26 | 57.66 | 24 | 27.4 | 4 | 40.19 | 38 | 68.7 | 19 |
| 16 | 9.47 | 18 | 21.1 | 17 | 60.25 | 63 | 59.6 | 28 | 57.87 | 21 | 27.7 | 3 | 40.52 | 33 | 70.8 | 21 |
| 26 | 9.62 | 15 | 23.0 | 19 | 60.74 | 49 | 62.7 | 31 | 58.05 | 18 | 28.0 | 3 | 40.80 | 28 | 73.0 | 22 |
| Dez. 6 | 9.72 | 10 | 24.9 | 19 | 61.08 | 34 | 65.8 | 31 | 58.19 | 14 | 28.2 | 2 | 41.01 | 21 | 75.2 | 22 |
| 16 | 9.79 | 7 | 26.9 | 20 | 61.26 | 18 | 68.8 | 30 | 58.30 | 11 | 28.4 | 2 | 41.15 | 14 | 77.4 | 22 |
| 26 | 9.82 | 3 | 28.8 | 19 | 61.27 | 1 | 71.7 | 29 | 58.36 | 6 | 28.6 | 2 | 41.22 | 7 | 79.5 | 21 |
| 36 | 9.81 | 1 | 30.5 | 17 | 61.11 | 16 | 74.5 | 28 | 58.37 | 1 | 28.7 | 1 | 41.21 | 1 | 81.5 | 20 |
| Mittl. Ort | 6.21 | | 39.0 | | 50.24 | | 50.8 | | 54.09 | | 12.8 | | 35.05 | | 60.3 | |
| | 172) | | | | 173) | | | | 174) | | | | 175) | | | |

| 1911 | 9 Camelop. $4^m.3$. AR. | | Dekl. + | | $\pi^5$ Orionis. $3^m.7$. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|
| | $4^h\ 45^m$ | | 66° 11′ | | $4^h\ 49^m$ | | 2° 17′ | |
| | s | | ″ | | s | | ″ | |
| Jan. 0 | 12.92 | 9 | 45.9 | 24 | 37.33 | 0 | 47.1 | 9 |
| 10 | 12.83 | 19 | 48.3 | 21 | 37.33 | 5 | 46.2 | 8 |
| 20 | 12.64 | 28 | 50.4 | 17 | 37.28 | 8 | 45.4 | 7 |
| 30 | 12.36 | 36 | 52.1 | 13 | 37.20 | 12 | 44.7 | 5 |
| Febr. 9 | 12.00 | 41 | 53.4 | 8 | 37.08 | 14 | 44.2 | 4 |
| 19 | 11.59 | 45 | 54.2 | 3 | 36.94 | 16 | 43.8 | 3 |
| März 1 | 11.14 | 46 | 54.5 | 1 | 36.78 | 16 | 43.5 | 1 |
| 11 | 10.68 | 44 | 54.4 | 6 | 36.62 | 16 | 43.4 | 1 |
| 21 | 10.24 | 41 | 53.8 | 11 | 36.46 | 15 | 43.5 | 2 |
| 31 | 9.83 | 35 | 52.7 | 14 | 36.31 | 14 | 43.7 | 4 |
| April 10 | 9.48 | 28 | 51.3 | 18 | 36.17 | 10 | 44.1 | 5 |
| 20 | 9.20 | 19 | 49.5 | 20 | 36.07 | 6 | 44.6 | 7 |
| 30 | 9.01 | 9 | 47.5 | 22 | 36.01 | 2 | 45.3 | 9 |
| Mai 10 | 8.92 | 1 | 45.3 | 22 | 35.99 | 2 | 46.2 | 11 |
| 20 | 8.93 | 12 | 43.1 | 23 | 36.01 | 7 | 47.3 | 12 |
| 30 | 9.05 | 24 | 40.8 | 24 | 36.08 | 12 | 48.5 | 15 |
| Juni 9 | [4] 9.29 | 32 | 38.4 | 20 | [5] 36.20 | 15 | 50.0 | 14 |
| 19 | 9.61 | 41 | 36.4 | 18 | 36.35 | 19 | 51.4 | 15 |
| 29 | 10.02 | 49 | 34.6 | 15 | 36.54 | 22 | 52.9 | 16 |
| Juli 9 | 10.51 | 55 | 33.1 | 12 | 36.76 | 25 | 54.5 | 15 |
| 19 | 11.06 | 60 | 31.9 | 9 | 37.01 | 27 | 56.0 | 15 |
| 29 | 11.66 | 65 | 31.0 | 6 | 37.28 | 29 | 57.5 | 14 |
| Aug. 8 | 12.31 | 67 | 30.4 | 2 | 37.57 | 29 | 58.9 | 12 |
| 18 | 12.98 | 69 | 30.2 | 1 | 37.86 | 30 | 60.1 | 10 |
| 28 | 13.67 | 69 | 30.3 | 5 | 38.16 | 30 | 61.1 | 8 |
| Sept. 7 | 14.36 | 69 | 30.8 | 8 | 38.46 | 30 | 61.9 | 5 |
| 17 | 15.05 | 67 | 31.6 | 12 | 38.76 | 29 | 62.4 | 2 |
| 27 | 15.72 | 64 | 32.8 | 15 | 39.05 | 27 | 62.6 | 0 |
| Okt. 7 | 16.36 | 61 | 34.3 | 18 | 39.32 | 27 | 62.6 | 3 |
| 17 | 16.97 | 57 | 36.1 | 20 | 39.59 | 24 | 62.3 | 6 |
| 27 | 17.54 | 50 | 38.1 | 23 | 39.83 | 23 | 61.7 | 7 |
| Nov. 6 | 18.04 | 44 | 40.4 | 24 | 40.06 | 20 | 61.0 | 9 |
| 16 | 18.48 | 35 | 42.8 | 26 | 40.26 | 17 | 60.1 | 10 |
| 26 | 18.83 | 27 | 45.4 | 27 | 40.43 | 14 | 59.1 | 11 |
| Dez. 6 | 19.10 | 17 | 48.1 | 26 | 40.57 | 10 | 58.0 | 11 |
| 16 | 19.27 | 6 | 50.7 | 26 | 40.67 | 6 | 56.9 | 10 |
| 26 | 19.33 | 4 | 53.3 | 24 | 40.73 | 1 | 55.9 | 9 |
| 36 | 19.29 | | 55.7 | | 40.74 | | 55.0 | |
| Mittl. Ort | 11.62 | | 33.9 | | 36.86 | | 43.9 | |
| | 178) | | | | 180) | | | |

| 1911 | ι Aurigae. $2^m.7$. AR. | | Dekl. + | | 10 Camelop. $4^m.1$. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|
| | $4^h\ 51^m$ | | 33° 1′ | | $4^h\ 55^m$ | | 60° 18′ | |
| | s | | ″ | | s | | ″ | |
| Jan. 0 | 12.20 | 0 | 41.4 | 7 | 30.79 | 4 | 58.8 | 21 |
| 10 | 12.20 | 5 | 42.1 | 7 | 30.75 | 13 | 60.9 | 19 |
| 20 | 12.15 | 9 | 42.8 | 5 | 30.62 | 20 | 62.8 | 16 |
| 30 | 12.06 | 14 | 43.3 | 4 | 30.42 | 26 | 64.4 | 13 |
| Febr. 9 | 11.92 | 16 | 43.7 | 2 | 30.16 | 32 | 65.7 | 8 |
| 19 | 11.76 | 19 | 43.9 | 0 | 29.84 | 34 | 66.5 | 4 |
| März 1 | 11.57 | 19 | 43.9 | 1 | 29.50 | 37 | 66.9 | 1 |
| 11 | 11.38 | 20 | 43.8 | 4 | 29.13 | 35 | 66.8 | 4 |
| 21 | 11.18 | 18 | 43.4 | 4 | 28.78 | 34 | 66.4 | 9 |
| 31 | 11.00 | 15 | 43.0 | 6 | 28.44 | 28 | 65.5 | 13 |
| April 10 | 10.85 | 11 | 42.4 | 7 | 28.16 | 23 | 64.2 | 15 |
| 20 | 10.74 | 7 | 41.7 | 6 | 27.93 | 16 | 62.7 | 18 |
| 30 | 10.67 | 2 | 41.1 | 7 | 27.77 | 8 | 60.9 | 19 |
| Mai 10 | 10.65 | 3 | 40.4 | 7 | 27.69 | 1 | 59.0 | 20 |
| 20 | 10.68 | 8 | 39.7 | 5 | 27.70 | 9 | 57.0 | 20 |
| 30 | 10.76 | 15 | 39.2 | 6 | 27.79 | 20 | 55.0 | 21 |
| Juni 9 | [5] 10.91 | 19 | 38.6 | 3 | [6] 27.99 | 26 | 52.9 | 18 |
| 19 | 11.10 | 23 | 38.3 | 2 | 28.25 | 33 | 51.1 | 16 |
| 29 | 11.33 | 27 | 38.1 | 0 | 28.58 | 40 | 49.5 | 14 |
| Juli 9 | 11.60 | 30 | 38.1 | 1 | 28.98 | 45 | 48.1 | 11 |
| 19 | 11.90 | 32 | 38.2 | 3 | 29.43 | 50 | 47.0 | 8 |
| 29 | 12.22 | 34 | 38.5 | 4 | 29.93 | 54 | 46.2 | 5 |
| Aug. 8 | 12.56 | 36 | 38.9 | 5 | 30.47 | 55 | 45.7 | 3 |
| 18 | 12.92 | 36 | 39.4 | 6 | 31.02 | 57 | 45.4 | 1 |
| 28 | 13.28 | 35 | 40.0 | 6 | 31.59 | 58 | 45.5 | 4 |
| Sept. 7 | 13.63 | 36 | 40.6 | 7 | 32.17 | 57 | 45.9 | 7 |
| 17 | 13.99 | 35 | 41.3 | 7 | 32.74 | 57 | 46.6 | 9 |
| 27 | 14.34 | 34 | 42.0 | 7 | 33.31 | 54 | 47.5 | 13 |
| Okt. 7 | 14.68 | 32 | 42.7 | 8 | 33.85 | 52 | 48.8 | 15 |
| 17 | 15.00 | 30 | 43.5 | 8 | 34.37 | 48 | 50.3 | 18 |
| 27 | 15.30 | 27 | 44.3 | 8 | 34.85 | 44 | 52.1 | 19 |
| Nov. 6 | 15.57 | 25 | 45.1 | 8 | 35.29 | 39 | 54.0 | 21 |
| 16 | 15.82 | 21 | 45.9 | 8 | 35.68 | 32 | 56.1 | 22 |
| 26 | 16.03 | 18 | 46.7 | 8 | 36.00 | 26 | 58.3 | 24 |
| Dez. 6 | 16.21 | 12 | 47.5 | 9 | 36.26 | 18 | 60.7 | 24 |
| 16 | 16.33 | 8 | 48.4 | 8 | 36.44 | 9 | 63.1 | 23 |
| 26 | 16.41 | 3 | 49.2 | 7 | 36.53 | 0 | 65.4 | 21 |
| 36 | 16.44 | | 49.9 | | 36.53 | | 67.5 | |
| Mittl. Ort | 11.74 | | 33.5 | | 29.75 | | 47.7 | |
| | 181) | | | | 182) | | | |

| 1911 | ε Aurigae. (3ᵐ.2). AR. | | Dekl. + | | ι Tauri. 4ᵐ.8. AR. | | Dekl. + | | η Aurigae. 3ᵐ.3. AR. | | Dekl. + | | ε Leporis. 3ᵐ.2. AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $4^h 55^m$ | | 43° 41′ | | $4^h 57^m$ | | 21° 27′ | | $5^h 0^m$ | | 41° 6′ | | $5^h 1^m$ | | 22° 28′ | |
| Jan. 0 | 35.36 | 0 | 42.1 | 13 | 46.92 | 1 | 55.1 | 1 | 16.84 | 1 | 62.6 | 12 | 42.38 | 3 | 84.0 | 21 |
| 10 | 35.36 | 6 | 43.4 | 11 | 46.93 | 4 | 55.2 | 1 | 16.85 | 5 | 63.8 | 11 | 42.35 | 7 | 86.1 | 18 |
| 20 | 35.30 | 12 | 44.5 | 10 | 46.89 | 8 | 55.3 | 0 | 16.80 | 11 | 64.9 | 9 | 42.28 | 10 | 87.9 | 15 |
| 30 | 35.18 | 16 | 45.5 | 7 | 46.81 | 11 | 55.3 | 0 | 16.69 | 15 | 65.8 | 6 | 42.18 | 14 | 89.4 | 12 |
| Febr. 9 | 35.02 | 19 | 46.2 | 5 | 46.70 | 14 | 55.3 | 0 | 16.54 | 18 | 66.4 | 5 | 42.04 | 17 | 90.6 | 8 |
| 19 | 34.83 | 23 | 46.7 | 2 | 46.56 | 17 | 55.3 | 1 | 16.36 | 21 | 66.9 | 2 | 41.87 | 19 | 91.4 | 4 |
| März 1 | 34.60 | 23 | 46.9 | 1 | 46.39 | 17 | 55.2 | 1 | 16.15 | 22 | 67.1 | 1 | 41.68 | 20 | 91.8 | 1 |
| 11 | 34.37 | 23 | 46.8 | 4 | 46.22 | 18 | 55.1 | 1 | 15.93 | 22 | 67.0 | 3 | 41.48 | 20 | 91.9 | 3 |
| 21 | 34.14 | 21 | 46.4 | 6 | 46.04 | 16 | 55.0 | 2 | 15.71 | 21 | 66.7 | 6 | 41.28 | 18 | 91.6 | 7 |
| 31 | 33.93 | 18 | 45.8 | 8 | 45.88 | 14 | 54.8 | 2 | 15.50 | 17 | 66.1 | 7 | 41.10 | 17 | 90.9 | 10 |
| April 10 | 33.75 | 15 | 45.0 | 11 | 45.74 | 10 | 54.6 | 2 | 15.33 | 14 | 65.4 | 9 | 40.93 | 13 | 89.9 | 14 |
| 20 | 33.60 | 9 | 43.9 | 11 | 45.64 | 7 | 54.4 | 2 | 15.19 | 9 | 64.5 | 10 | 40.80 | 10 | 88.5 | 17 |
| 30 | 33.51 | 4 | 42.8 | 12 | 45.57 | 2 | 54.2 | 1 | 15.10 | 4 | 63.5 | 11 | 40.70 | 6 | 86.8 | 19 |
| Mai 10 | 33.47 | 3 | 41.6 | 12 | 45.55 | 2 | 54.1 | 0 | 15.06 | 2 | 62.4 | 11 | 40.64 | 2 | 84.9 | 22 |
| 20 | 33.50 | 9 | 40.4 | 12 | 45.57 | 7 | 54.1 | 1 | 15.08 | 8 | 61.3 | 10 | 40.62 | 3 | 82.7 | 24 |
| 30 | 33.59 | 16 | 39.2 | 12 | 45.64 | 13 | 54.2 | 2 | 15.16 | 15 | 60.3 | 11 | 40.65 | 9 | 80.3 | 28 |
| Juni 9 | 33.75 | 20 | 38.0 | 9 | 45.77 | 17 | 54.4 | 3 | 15.31 | 19 | 59.2 | 8 | 40.74 | 12 | 77.5 | 26 |
| 19 | 33.95 | 25 | 37.1 | 8 | 45.94 | 20 | 54.7 | 5 | 15.50 | 24 | 58.4 | 7 | 40.86 | 17 | 74.9 | 26 |
| 29 | 34.20 | 30 | 36.3 | 6 | 46.14 | 24 | 55.2 | 5 | 15.74 | 29 | 57.7 | 5 | 41.03 | 20 | 72.3 | 26 |
| Juli 9 | 34.50 | 33 | 35.7 | 4 | 46.38 | 27 | 55.7 | 7 | 16.03 | 32 | 57.2 | 3 | 41.23 | 23 | 69.7 | 24 |
| 19 | 34.83 | 37 | 35.3 | 2 | 46.65 | 29 | 56.4 | 7 | 16.35 | 35 | 56.9 | 1 | 41.46 | 25 | 67.3 | 23 |
| 29 | 35.20 | 38 | 35.1 | 0 | 46.94 | 31 | 57.1 | 7 | 16.70 | 36 | 56.8 | 0 | 41.71 | 28 | 65.0 | 20 |
| Aug. 8 | 35.58 | 40 | 35.1 | 2 | 47.25 | 32 | 57.8 | 7 | 17.06 | 39 | 56.8 | 2 | 41.99 | 29 | 63.0 | 16 |
| 18 | 35.98 | 41 | 35.3 | 3 | 47.57 | 32 | 58.5 | 7 | 17.45 | 39 | 57.0 | 3 | 42.28 | 31 | 61.4 | 13 |
| 28 | 36.39 | 41 | 35.6 | 5 | 47.89 | 33 | 59.2 | 7 | 17.84 | 40 | 57.3 | 5 | 42.59 | 30 | 60.1 | 8 |
| Sept. 7 | 36.80 | 41 | 36.1 | 7 | 48.22 | 32 | 59.9 | 6 | 18.24 | 39 | 57.8 | 6 | 42.89 | 31 | 59.3 | 3 |
| 17 | 37.21 | 40 | 36.8 | 8 | 48.54 | 32 | 60.5 | 4 | 18.63 | 39 | 58.4 | 7 | 43.20 | 29 | 59.0 | 1 |
| 27 | 37.61 | 39 | 37.6 | 9 | 48.86 | 31 | 60.9 | 4 | 19.02 | 37 | 59.1 | 9 | 43.49 | 29 | 59.1 | 6 |
| Okt. 7 | 38.00 | 37 | 38.5 | 11 | 49.17 | 29 | 61.3 | 4 | 19.39 | 37 | 60.0 | 9 | 43.78 | 27 | 59.7 | 11 |
| 17 | 38.37 | 35 | 39.6 | 12 | 49.46 | 28 | 61.7 | 2 | 19.76 | 34 | 60.9 | 10 | 44.05 | 26 | 60.8 | 15 |
| 27 | 38.72 | 32 | 40.8 | 12 | 49.74 | 25 | 61.9 | 2 | 20.10 | 31 | 61.9 | 12 | 44.31 | 22 | 62.3 | 18 |
| Nov. 6 | 39.04 | 28 | 42.0 | 14 | 49.99 | 23 | 62.1 | 2 | 20.41 | 28 | 63.1 | 11 | 44.53 | 20 | 64.1 | 21 |
| 16 | 39.32 | 25 | 43.4 | 14 | 50.22 | 20 | 62.3 | 0 | 20.69 | 24 | 64.2 | 12 | 44.73 | 17 | 66.2 | 23 |
| 26 | 39.57 | 20 | 44.8 | 14 | 50.42 | 17 | 62.3 | 1 | 20.93 | 20 | 65.4 | 13 | 44.90 | 13 | 68.5 | 24 |
| Dez. 6 | 39.77 | 14 | 46.2 | 15 | 50.59 | 12 | 62.4 | 1 | 21.13 | 15 | 66.7 | 13 | 45.03 | 9 | 70.9 | 25 |
| 16 | 39.91 | 9 | 47.7 | 14 | 50.71 | 8 | 62.5 | 0 | 21.28 | 9 | 68.0 | 13 | 45.12 | 4 | 73.4 | 23 |
| 26 | 40.00 | 3 | 49.1 | 14 | 50.79 | 4 | 62.5 | 2 | 21.37 | 4 | 69.3 | 12 | 45.16 | 0 | 75.7 | 22 |
| 36 | 40.03 | | 50.5 | | 50.83 | | 62.7 | | 21.41 | | 70.5 | | 45.16 | | 77.9 | |
| Mittl. Ort | 34.78 | | 32.8 | | 46.48 | | 48.9 | | 16.27 | | 53.8 | | 41.59 | | 84.2 | |
| | 183) | | | | 184) | | | | 185) | | | | 186) | | | |

| 1911 | β Eridani. 2m.7. AR. | | β Eridani. Dekl. − | | μ Aurigae. 5m.1. AR. | | μ Aurigae. Dekl. + | | 19 H. Camelop. 5m.1. AR. | | 19 H. Camelop. Dekl. + | | α Aurigae. 1m. AR. | | α Aurigae. Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5h 3m | | 5° 11′ | | 5h 7m | | 38° 22′ | | 5h 7m | | 79° 7′ | | 5h 10m | | 45° 54′ | |
| Jan. 0 | 28.99s | 1 | 60.8″ | 13 | 20.73s | 1 | 55.8″ | 11 | 55.94s | 19 | 63.3″ | 29 | 7.42s | 1 | 39.3″ | 14 |
| 10 | 29.00 | 5 | 62.1 | 12 | 20.74 | 4 | 56.9 | 9 | 55.75 | 42 | 66.2 | 27 | 7.43 | 5 | 40.7 | 13 |
| 20 | 28.95 | 8 | 63.3 | 9 | 20.70 | 9 | 57.8 | 8 | 55.33 | 63 | 68.9 | 23 | 7.38 | 11 | 42.0 | 12 |
| 30 | 28.87 | 11 | 64.2 | 8 | 20.61 | 14 | 58.6 | 7 | 54.70 | 79 | 71.2 | 19 | 7.27 | 16 | 43.2 | 9 |
| Febr. 9 | 28.76 | 15 | 65.0 | 5 | 20.47 | 17 | 59.3 | 4 | 53.91 | 92 | 73.1 | 14 | 7.11 | 20 | 44.1 | 6 |
| 19 | 28.61 | 16 | 65.5 | 4 | 20.30 | 20 | 59.7 | 2 | 52.99 | 101 | 74.5 | 8 | 6.91 | 22 | 44.7 | 4 |
| März 1 | 28.45 | 17 | 65.9 | 1 | 20.10 | 21 | 59.9 | 0 | 51.98 | 104 | 75.3 | 2 | 6.69 | 25 | 45.1 | 0 |
| 11 | 28.28 | 17 | 66.0 | 1 | 19.89 | 21 | 59.9 | 2 | 50.94 | 104 | 75.5 | 3 | 6.44 | 24 | 45.1 | 3 |
| 21 | 28.11 | 16 | 65.9 | 4 | 19.68 | 20 | 59.7 | 5 | 49.90 | 98 | 75.2 | 9 | 6.20 | 23 | 44.8 | 5 |
| 31 | 27.95 | 14 | 65.5 | 5 | 19.48 | 17 | 59.2 | 6 | 48.92 | 89 | 74.3 | 14 | 5.97 | 20 | 44.3 | 8 |
| April 10 | 27.81 | 11 | 65.0 | 8 | 19.31 | 13 | 58.6 | 8 | 48.03 | 74 | 72.9 | 19 | 5.77 | 16 | 43.5 | 10 |
| 20 | 27.70 | 8 | 64.2 | 10 | 19.18 | 10 | 57.8 | 9 | 47.29 | 57 | 71.0 | 22 | 5.61 | 11 | 42.5 | 12 |
| 30 | 27.62 | 4 | 63.2 | 12 | 19.08 | 4 | 56.9 | 9 | 46.72 | 39 | 68.8 | 24 | 5.50 | 6 | 41.3 | 13 |
| Mai 10 | 27.58 | 0 | 62.0 | 14 | 19.04 | 2 | 56.0 | 9 | 46.33 | 18 | 66.4 | 26 | 5.44 | 1 | 40.0 | 13 |
| 20 | 27.58 | 5 | 60.6 | 16 | 19.06 | 6 | 55.1 | 9 | 46.15 | 5 | 63.8 | 28 | 5.45 | 6 | 38.7 | 13 |
| 30 | 27.63 | 10 | 59.0 | 19 | 19.12 | 13 | 54.2 | 8 | 46.20 | 25 | 61.0 | 28 | 5.51 | 13 | 37.4 | 13 |
| Juni 9 | [8] 27.73 | 14 | 57.1 | 18 | [9] 19.25 | 19 | 53.4 | 8 | [9] 46.45 | 52 | 58.2 | 28 | [10] 5.64 | 21 | 36.1 | 12 |
| 19 | 27.87 | 17 | 55.3 | 18 | 19.44 | 23 | 52.6 | 6 | 46.97 | 67 | 55.4 | 24 | 5.85 | 25 | 34.9 | 10 |
| 29 | 28.04 | 21 | 53.5 | 19 | 19.67 | 27 | 52.0 | 4 | 47.64 | 84 | 53.0 | 22 | 6.10 | 29 | 33.9 | 9 |
| Juli 9 | 28.25 | 23 | 51.6 | 18 | 19.94 | 30 | 51.6 | 2 | 48.48 | 100 | 50.8 | 20 | 6.39 | 33 | 33.0 | 6 |
| 19 | 28.48 | 25 | 49.8 | 17 | 20.24 | 33 | 51.4 | 1 | 49.48 | 113 | 48.8 | 16 | 6.72 | 36 | 32.4 | 4 |
| 29 | 28.73 | 28 | 48.1 | 16 | 20.57 | 36 | 51.3 | 0 | 50.61 | 123 | 47.2 | 12 | 7.08 | 39 | 32.0 | 3 |
| Aug. 8 | 29.01 | 28 | 46.5 | 13 | 20.93 | 36 | 51.3 | 2 | 51.84 | 132 | 46.0 | 8 | 7.47 | 41 | 31.7 | 1 |
| 18 | 29.29 | 30 | 45.2 | 11 | 21.29 | 38 | 51.5 | 3 | 53.16 | 138 | 45.2 | 4 | 7.88 | 42 | 31.6 | 1 |
| 28 | 29.59 | 30 | 44.1 | 7 | 21.67 | 38 | 51.8 | 4 | 54.54 | 142 | 44.8 | 1 | 8.30 | 42 | 31.7 | 4 |
| Sept. 7 | 29.89 | 29 | 43.4 | 5 | 22.05 | 38 | 52.2 | 6 | 55.96 | 142 | 44.9 | 4 | 8.72 | 43 | 32.1 | 5 |
| 17 | 30.18 | 29 | 42.9 | 1 | 22.43 | 38 | 52.8 | 6 | 57.38 | 141 | 45.3 | 9 | 9.15 | 42 | 32.6 | 6 |
| 27 | 30.47 | 28 | 42.8 | 3 | 22.81 | 37 | 53.4 | 7 | 58.79 | 137 | 46.2 | 13 | 9.57 | 41 | 33.2 | 8 |
| Okt. 7 | 30.75 | 27 | 43.1 | 5 | 23.18 | 35 | 54.1 | 8 | 60.16 | 130 | 47.5 | 17 | 9.98 | 40 | 34.0 | 9 |
| 17 | 31.02 | 25 | 43.6 | 9 | 23.53 | 33 | 54.9 | 8 | 61.46 | 121 | 49.2 | 20 | 10.38 | 37 | 34.9 | 11 |
| 27 | 31.27 | 23 | 44.5 | 11 | 23.86 | 31 | 55.7 | 10 | 62.67 | 109 | 51.2 | 24 | 10.75 | 35 | 36.0 | 12 |
| Nov. 6 | 31.50 | 20 | 45.6 | 13 | 24.17 | 28 | 56.7 | 10 | 63.76 | 94 | 53.6 | 27 | 11.10 | 31 | 37.2 | 14 |
| 16 | 31.70 | 18 | 46.9 | 15 | 24.45 | 24 | 57.7 | 10 | 64.70 | 77 | 56.3 | 29 | 11.41 | 27 | 38.6 | 14 |
| 26 | 31.88 | 15 | 48.4 | 16 | 24.69 | 20 | 58.7 | 10 | 65.47 | 58 | 59.2 | 31 | 11.68 | 23 | 40.0 | 15 |
| Dez. 6 | 32.03 | 10 | 50.0 | 15 | 24.89 | 16 | 59.7 | 12 | 66.05 | 36 | 62.3 | 31 | 11.91 | 17 | 41.5 | 15 |
| 16 | 32.13 | 7 | 51.5 | 15 | 25.05 | 10 | 60.9 | 11 | 66.41 | 14 | 65.4 | 31 | 12.08 | 11 | 43.0 | 15 |
| 26 | 32.20 | 2 | 53.0 | 14 | 25.15 | 5 | 62.0 | 10 | 66.55 | 10 | 68.5 | 30 | 12.19 | 4 | 44.5 | 15 |
| 36 | 32.22 | | 54.4 | | 25.20 | | 63.0 | | 66.45 | | 71.5 | | 12.23 | | 46.0 | |
| **Mittl. Ort** | 28.43 | | 63.2 | | 20.16 | | 47.6 | | 52.04 | | 51.5 | | 6.72 | | 30.2 | |
| | 188) | | | | 192) | | | | 191) | | | | 193) | | | |

| 1911 | β Orionis. 1m. AR. | | Dekl. − | | ϑ Doradus. 4m.8. AR. | | Dekl. − | | γ Orionis. 1m.7. AR. | | Dekl. + | | β Tauri. 1m.8. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5h 10m | | 8° 17′ | | 5h 13m | | 67° 16′ | | 5h 20m | | 6° 16′ | | 5h 20m | | 28° 31′ | |
| Jan. 0 | 16.20 | 1 | 71.6 | 15 | 52.88 | 26 | 69.8 | 30 | 21.93 | 3 | 15.1 | 8 | 40.42 | 3 | 66.0 | 5 |
| 10 | 16.21 | 4 | 73.1 | 13 | 52.62 | 36 | 72.8 | 26 | 21.96 | 2 | 14.3 | 6 | 40.45 | 1 | 66.5 | 4 |
| 20 | 16.17 | 8 | 74.4 | 11 | 52.26 | 44 | 75.4 | 22 | 21.94 | 6 | 13.7 | 6 | 40.44 | 7 | 66.9 | 4 |
| 30 | 16.09 | 11 | 75.5 | 9 | 51.82 | 50 | 77.6 | 17 | 21.88 | 10 | 13.1 | 5 | 40.37 | 11 | 67.3 | 4 |
| Febr. 9 | 15.98 | 15 | 76.4 | 6 | 51.32 | 56 | 79.3 | 11 | 21.78 | 13 | 12.6 | 3 | 40.26 | 14 | 67.7 | 2 |
| 19 | 15.83 | 16 | 77.0 | 4 | 50.76 | 59 | 80.4 | 6 | 21.65 | 15 | 12.3 | 2 | 40.12 | 17 | 67.9 | 2 |
| März 1 | 15.67 | 18 | 77.4 | 1 | 50.17 | 61 | 81.0 | 0 | 21.50 | 17 | 12.1 | 1 | 39.95 | 19 | 68.1 | 0 |
| 11 | 15.49 | 17 | 77.5 | 1 | 49.56 | 60 | 81.0 | 5 | 21.33 | 17 | 12.0 | 0 | 39.76 | 19 | 68.1 | 1 |
| 21 | 15.32 | 16 | 77.4 | 2 | 48.96 | 59 | 80.5 | 11 | 21.16 | 16 | 12.0 | 1 | 39.57 | 18 | 68.0 | 2 |
| 31 | 15.16 | 15 | 77.2 | 8 | 48.37 | 55 | 79.4 | 15 | 21.00 | 14 | 12.1 | 2 | 39.39 | 15 | 67.8 | 4 |
| April 10 | 15.01 | 12 | 76.4 | 9 | 47.82 | 49 | 77.9 | 21 | 20.86 | 12 | 12.3 | 4 | 39.24 | 13 | 67.4 | 4 |
| 20 | 14.89 | 9 | 75.5 | 11 | 47.33 | 43 | 75.8 | 24 | 20.74 | 8 | 12.7 | 5 | 39.11 | 9 | 67.0 | 4 |
| 30 | 14.80 | 5 | 74.4 | 13 | 46.90 | 35 | 73.4 | 28 | 20.66 | 4 | 13.2 | 6 | 39.02 | 5 | 66.6 | 4 |
| Mai 10 | 14.75 | 0 | 73.1 | 15 | 46.55 | 26 | 70.6 | 31 | 20.62 | 1 | 13.8 | 8 | 38.97 | 1 | 66.2 | 4 |
| 20 | 14.75 | 4 | 71.6 | 17 | 46.29 | 17 | 67.5 | 33 | 20.61 | 4 | 14.6 | 9 | 38.98 | 5 | 65.8 | 4 |
| 30 | 14.79 | 8 | 69.9 | 18 | 46.12 | 7 | 64.2 | 35 | 20.65 | 9 | 15.5 | 10 | 39.03 | 10 | 65.4 | 3 |
| Juni 9 | 14.87 | 14 | 68.1 | 22 | 46.05 | 4 | 60.7 | 39 | 20.74 | 14 | 16.5 | 12 | 39.13 | 16 | 65.1 | 2 |
| 19 | [10] 15.01 | 16 | 65.9 | 20 | [10] 46.09 | 13 | 56.8 | 35 | [12] 20.88 | 17 | 17.7 | 13 | [12] 39.29 | 20 | 64.9 | 0 |
| 29 | 15.17 | 20 | 63.9 | 20 | 46.22 | 23 | 53.3 | 34 | 21.05 | 20 | 19.0 | 12 | 39.49 | 23 | 64.9 | 1 |
| Juli 9 | 15.37 | 23 | 61.9 | 19 | 46.45 | 32 | 49.9 | 32 | 21.25 | 23 | 20.2 | 13 | 39.72 | 27 | 65.0 | 0 |
| 19 | 15.60 | 25 | 60.0 | 18 | 46.77 | 39 | 46.7 | 28 | 21.48 | 25 | 21.5 | 11 | 39.99 | 29 | 65.0 | 2 |
| 29 | 15.85 | 27 | 58.2 | 17 | 47.16 | 46 | 43.9 | 25 | 21.73 | 28 | 22.6 | 12 | 40.28 | 31 | 65.2 | 4 |
| Aug. 8 | 16.12 | 28 | 56.5 | 14 | 47.62 | 52 | 41.4 | 20 | 22.01 | 28 | 23.8 | 10 | 40.59 | 33 | 65.6 | 3 |
| 18 | 16.40 | 29 | 55.1 | 11 | 48.14 | 57 | 39.4 | 14 | 22.29 | 30 | 24.8 | 9 | 40.92 | 33 | 65.9 | 4 |
| 28 | 16.69 | 30 | 54.0 | 7 | 48.71 | 58 | 38.0 | 8 | 22.59 | 30 | 25.7 | 6 | 41.25 | 34 | 66.3 | 4 |
| Sept. 7 | 16.99 | 29 | 53.3 | 4 | 49.29 | 60 | 37.2 | 2 | 22.89 | 30 | 26.3 | 5 | 41.59 | 35 | 66.7 | 4 |
| 17 | 17.28 | 29 | 52.9 | 1 | 49.89 | 59 | 37.0 | 4 | 23.19 | 30 | 26.8 | 2 | 41.94 | 34 | 67.1 | 4 |
| 27 | 17.57 | 29 | 52.8 | 3 | 50.48 | 57 | 37.4 | 11 | 23.49 | 29 | 27.0 | 1 | 42.28 | 34 | 67.5 | 4 |
| Okt. 7 | 17.86 | 27 | 53.1 | 6 | 51.05 | 53 | 38.5 | 17 | 23.78 | 28 | 26.9 | 2 | 42.62 | 32 | 67.9 | 3 |
| 17 | 18.13 | 25 | 53.7 | 10 | 51.58 | 46 | 40.2 | 22 | 24.06 | 27 | 26.7 | 5 | 42.94 | 31 | 68.2 | 4 |
| 27 | 18.38 | 24 | 54.7 | 13 | 52.04 | 40 | 42.4 | 28 | 24.33 | 25 | 26.2 | 6 | 43.25 | 29 | 68.6 | 3 |
| Nov. 6 | 18.62 | 21 | 56.0 | 15 | 52.44 | 31 | 45.2 | 30 | 24.58 | 23 | 25.6 | 8 | 43.54 | 26 | 68.9 | 4 |
| 16 | 18.83 | 18 | 57.5 | 16 | 52.75 | 21 | 48.2 | 34 | 24.81 | 21 | 24.8 | 9 | 43.80 | 24 | 69.3 | 4 |
| 26 | 19.01 | 15 | 59.1 | 18 | 52.96 | 11 | 51.6 | 35 | 25.02 | 17 | 23.9 | 10 | 44.04 | 20 | 69.7 | 4 |
| Dez. 6 | 19.16 | 11 | 60.9 | 17 | 53.07 | 1 | 55.1 | 35 | 25.19 | 13 | 22.9 | 9 | 44.24 | 16 | 70.1 | 5 |
| 16 | 19.27 | 7 | 62.6 | 17 | 53.08 | 11 | 58.6 | 34 | 25.32 | 9 | 22.0 | 9 | 44.40 | 11 | 70.6 | 4 |
| 26 | 19.34 | 2 | 64.3 | 16 | 52.97 | 21 | 62.0 | 31 | 25.41 | 5 | 21.1 | 9 | 44.51 | 6 | 71.0 | 5 |
| 36 | 19.36 | | 65.9 | | 52.76 | | 65.1 | | 25.46 | | 20.2 | | 44.57 | | 71.5 | |
| Mittl. Ort | 15.60 | | 73.9 | | 49.37 | | 67.6 | | 21.41 | | 10.8 | | 39.89 | | 59.1 | |
| | 194) | | | | 196) | | | | 201) | | | | 202) | | | |

| 1911 | 17 Camelop. $5^m.9$. AR. | Diff. | Dekl. + | Diff. | δ Orionis. $2^m.2$. AR. | Diff. | Dekl. − | Diff. |
|---|---|---|---|---|---|---|---|---|
| | $5^h\ 21^m$ | | 62° 59′ | | $5^h\ 27^m$ | | 0° 21′ | |
| Jan. 0 | 47.00 | 0 | 48.5 | 24 | 28.11 | 3 | 48.1 | 11 |
| 10 | 47.00 | 10 | 50.9 | 22 | 28.14 | 2 | 49.2 | 10 |
| 20 | 46.90 | 18 | 53.1 | 18 | 28.12 | 6 | 50.2 | 9 |
| 30 | 46.72 | 26 | 54.9 | 16 | 28.06 | 10 | 51.1 | 7 |
| Febr. 9 | 46.46 | 33 | 56.5 | 12 | 27.96 | 13 | 51.8 | 5 |
| 19 | 46.13 | 37 | 57.7 | 7 | 27.83 | 15 | 52.3 | 4 |
| März 1 | 45.76 | 39 | 58.4 | 3 | 27.68 | 17 | 52.7 | 1 |
| 11 | 45.37 | 40 | 58.7 | 2 | 27.51 | 17 | 52.8 | 0 |
| 21 | 44.97 | 39 | 58.5 | 6 | 27.34 | 16 | 52.8 | 2 |
| 31 | 44.58 | 34 | 57.9 | 10 | 27.18 | 15 | 52.6 | 4 |
| April 10 | 44.24 | 28 | 56.9 | 14 | 27.03 | 13 | 52.2 | 6 |
| 20 | 43.96 | 22 | 55.5 | 16 | 26.90 | 9 | 51.6 | 7 |
| 30 | 43.74 | 14 | 53.9 | 19 | 26.81 | 5 | 50.9 | 9 |
| Mai 10 | 43.60 | 6 | 52.0 | 21 | 26.76 | 1 | 50.0 | 11 |
| 20 | 43.54 | 4 | 49.9 | 21 | 26.75 | 3 | 48.9 | 13 |
| 30 | 43.58 | 14 | 47.8 | 21 | 26.78 | 7 | 47.6 | 13 |
| Juni 9 | [12] 43.72 | 25 | 45.7 | 22 | [14] 26.85 | 13 | 46.3 | 16 |
| 19 | 43.97 | 31 | 43.5 | 20 | 26.98 | 15 | 44.7 | 16 |
| 29 | 44.28 | 38 | 41.5 | 17 | 27.13 | 19 | 43.1 | 16 |
| Juli 9 | 44.66 | 45 | 39.8 | 15 | 27.32 | 22 | 41.5 | 15 |
| 19 | 45.11 | 50 | 38.3 | 12 | 27.54 | 25 | 40.0 | 15 |
| 29 | 45.61 | 55 | 37.1 | 9 | 27.79 | 26 | 38.5 | 13 |
| Aug. 8 | 46.16 | 59 | 36.2 | 7 | 28.05 | 28 | 37.2 | 12 |
| 18 | 46.75 | 60 | 35.5 | 4 | 28.33 | 29 | 36.0 | 10 |
| 28 | 47.35 | 62 | 35.1 | 0 | 28.62 | 29 | 35.0 | 7 |
| Sept. 7 | 47.97 | 63 | 35.1 | 3 | 28.91 | 30 | 34.3 | 4 |
| 17 | 48.60 | 63 | 35.4 | 6 | 29.21 | 29 | 33.9 | 1 |
| 27 | 49.23 | 61 | 36.0 | 9 | 29.50 | 30 | 33.8 | 2 |
| Okt. 7 | 49.84 | 59 | 36.9 | 12 | 29.80 | 28 | 34.0 | 4 |
| 17 | 50.43 | 56 | 38.1 | 15 | 30.08 | 26 | 34.4 | 7 |
| 27 | 50.99 | 52 | 39.6 | 18 | 30.34 | 25 | 35.1 | 10 |
| Nov. 6 | 51.51 | 47 | 41.4 | 19 | 30.59 | 23 | 36.1 | 12 |
| 16 | 51.98 | 40 | 43.3 | 22 | 30.82 | 21 | 37.3 | 12 |
| 26 | 52.38 | 32 | 45.5 | 23 | 31.03 | 17 | 38.5 | 14 |
| Dez. 6 | 52.70 | 24 | 47.8 | 24 | 31.20 | 13 | 39.9 | 13 |
| 16 | 52.94 | 15 | 50.2 | 25 | 31.33 | 9 | 41.2 | 13 |
| 26 | 53.09 | 6 | 52.7 | 23 | 31.42 | 5 | 42.5 | 13 |
| 36 | 53.15 | | 55.0 | | 31.47 | | 43.8 | |
| Mittl. Ort | 45.62 | | 38.5 | | 27.54 | | 51.8 | |
| | 203) | | | | 206) | | | |

| 1911 | Gr. 966. $6^m.6$. AR. | Diff. | Dekl. + | Diff. | α Leporis. $2^m.6$. AR. | Diff. | Dekl. − | Diff. |
|---|---|---|---|---|---|---|---|---|
| | $5^h\ 27^m$ | | 74° 59′ | | $5^h\ 28^m$ | | 17° 52′ | |
| Jan. 0 | 51.93 | 5 | 22.0 | 29 | 49.02 | 1 | 65.6 | 20 |
| 10 | 51.88 | 22 | 24.9 | 27 | 49.03 | 4 | 67.6 | 18 |
| 20 | 51.66 | 37 | 27.6 | 23 | 48.99 | 8 | 69.4 | 15 |
| 30 | 51.29 | 50 | 29.9 | 19 | 48.91 | 12 | 70.9 | 13 |
| Febr. 9 | 50.79 | 62 | 31.8 | 16 | 48.79 | 15 | 72.2 | 9 |
| 19 | 50.17 | 70 | 33.4 | 10 | 48.64 | 18 | 73.1 | 5 |
| März 1 | 49.47 | 73 | 34.4 | 5 | 48.46 | 18 | 73.6 | 3 |
| 11 | 48.74 | 74 | 34.9 | 1 | 48.28 | 19 | 73.9 | 1 |
| 21 | 48.00 | 71 | 34.8 | 7 | 48.09 | 19 | 73.8 | 4 |
| 31 | 47.29 | 66 | 34.1 | 11 | 47.90 | 17 | 73.4 | 8 |
| April 10 | 46.63 | 56 | 33.0 | 14 | 47.73 | 14 | 72.6 | 10 |
| 20 | 46.07 | 45 | 31.6 | 21 | 47.59 | 11 | 71.6 | 14 |
| 30 | 45.62 | 31 | 29.5 | 22 | 47.48 | 8 | 70.2 | 16 |
| Mai 10 | 45.31 | 17 | 27.3 | 24 | 47.40 | 3 | 68.6 | 19 |
| 20 | 45.14 | 1 | 24.9 | 26 | 47.37 | 1 | 66.7 | 20 |
| 30 | 45.13 | 14 | 22.3 | 26 | 47.38 | 5 | 64.7 | 22 |
| Juni 9 | [14] 45.27 | 33 | 19.7 | 29 | [14] 47.43 | 11 | 62.5 | 26 |
| 19 | 45.60 | 45 | 16.8 | 24 | 47.54 | 14 | 59.9 | 24 |
| 29 | 46.05 | 59 | 14.4 | 22 | 47.68 | 18 | 57.5 | 24 |
| Juli 9 | 46.64 | 70 | 12.2 | 20 | 47.86 | 21 | 55.1 | 23 |
| 19 | 47.34 | 81 | 10.2 | 17 | 48.07 | 24 | 52.8 | 21 |
| 29 | 48.15 | 88 | 8.5 | 14 | 48.31 | 26 | 50.7 | 19 |
| Aug. 8 | 49.03 | 96 | 7.1 | 10 | 48.57 | 27 | 48.8 | 17 |
| 18 | 49.99 | 101 | 6.1 | 6 | 48.84 | 29 | 47.1 | 12 |
| 28 | 51.00 | 104 | 5.5 | 3 | 49.13 | 30 | 45.9 | 9 |
| Sept. 7 | 52.04 | 107 | 5.2 | 1 | 49.43 | 30 | 45.0 | 5 |
| 17 | 53.11 | 106 | 5.3 | 5 | 49.73 | 30 | 44.5 | 0 |
| 27 | 54.17 | 104 | 5.8 | 9 | 50.03 | 29 | 44.5 | 5 |
| Okt. 7 | 55.21 | 100 | 6.7 | 13 | 50.32 | 28 | 45.0 | 9 |
| 17 | 56.21 | 94 | 8.0 | 18 | 50.60 | 27 | 45.9 | 13 |
| 27 | 57.15 | 87 | 9.8 | 20 | 50.87 | 25 | 47.2 | 16 |
| Nov. 6 | 58.02 | 77 | 11.8 | 23 | 51.12 | 22 | 48.8 | 19 |
| 16 | 58.79 | 66 | 14.1 | 26 | 51.34 | 19 | 50.7 | 22 |
| 26 | 59.45 | 52 | 16.7 | 28 | 51.53 | 16 | 52.9 | 22 |
| Dez. 6 | 59.97 | 38 | 19.5 | 29 | 51.69 | 12 | 55.1 | 23 |
| 16 | 60.35 | 21 | 22.4 | 30 | 51.81 | 8 | 57.4 | 23 |
| 26 | 60.56 | 4 | 25.4 | 29 | 51.89 | 3 | 59.7 | 21 |
| 36 | 60.60 | | 28.3 | | 51.92 | | 61.8 | |
| Mittl. Ort | 48.99 | | 11.6 | | 48.26 | | 67.7 | |
| | 205) | | | | 207) | | | |

| 1911 | ι Orionis. 2$^m$.8. | | | | ε Orionis. 1$^m$.6. | | | | ζ Tauri. 3$^m$.0. | | | | β Doradus. 3$^m$.7. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. – | | AR. | | Dekl. – | | AR. | | Dekl. + | | AR. | | Dekl. – | |
| | 5$^h$ 31$^m$ | | 5° 57′ | | 5$^h$ 31$^m$ | | 1° 15′ | | 5$^h$ 32$^m$ | | 21° 5′ | | 5$^h$ 32$^m$ | | 62° 32′ | |
| Jan. 0 | 5.37 | 3 | 60.6 | 15 | 42.39 | 3 | 25.6 | 12 | 20.03 | 5 | 26.3 | 1 | 53.88 | 16 | 52.6 | 32 |
| 10 | 5.40 | 2 | 62.1 | 13 | 42.42 | 1 | 26.8 | 11 | 20.08 | 1 | 26.4 | 1 | 53.72 | 24 | 55.8 | 28 |
| 20 | 5.38 | 7 | 63.4 | 11 | 42.41 | 6 | 27.9 | 9 | 20.07 | 5 | 26.5 | 1 | 53.48 | 33 | 58.6 | 24 |
| 30 | 5.31 | 10 | 64.5 | 9 | 42.35 | 10 | 28.8 | 7 | 20.02 | 9 | 26.6 | 1 | 53.15 | 39 | 61.0 | 19 |
| Febr. 9 | 5.21 | 13 | 65.4 | 7 | 42.25 | 13 | 29.5 | 6 | 19.93 | 13 | 26.7 | 0 | 52.76 | 43 | 62.9 | 14 |
| 19 | 5.08 | 16 | 66.1 | 4 | 42.12 | 15 | 30.1 | 3 | 19.80 | 16 | 26.7 | 1 | 52.33 | 48 | 64.3 | 9 |
| März 1 | 4.92 | 17 | 66.5 | 2 | 41.97 | 17 | 30.4 | 2 | 19.64 | 17 | 26.8 | 0 | 51.85 | 49 | 65.2 | 4 |
| 11 | 4.75 | 17 | 66.7 | 1 | 41.80 | 17 | 30.6 | 0 | 19.47 | 18 | 26.8 | 0 | 51.36 | 50 | 65.6 | 2 |
| 21 | 4.58 | 17 | 66.6 | 2 | 41.63 | 16 | 30.6 | 2 | 19.29 | 17 | 26.8 | 1 | 50.86 | 49 | 65.4 | 8 |
| 31 | 4.41 | 15 | 66.4 | 5 | 41.47 | 15 | 30.4 | 4 | 19.12 | 15 | 26.7 | 1 | 50.37 | 46 | 64.6 | 12 |
| April 10 | 4.26 | 13 | 65.9 | 7 | 41.32 | 13 | 30.0 | 6 | 18.97 | 13 | 26.6 | 1 | 49.91 | 42 | 63.4 | 18 |
| 20 | 4.13 | 10 | 65.2 | 10 | 41.19 | 9 | 29.4 | 8 | 18.84 | 9 | 26.5 | 1 | 49.49 | 37 | 61.6 | 22 |
| 30 | 4.03 | 6 | 64.2 | 11 | 41.10 | 6 | 28.6 | 10 | 18.75 | 5 | 26.4 | 0 | 49.12 | 31 | 59.4 | 25 |
| Mai 10 | 3.97 | 2 | 63.1 | 14 | 41.04 | 1 | 27.6 | 11 | 18.70 | 1 | 26.4 | 1 | 48.81 | 23 | 56.9 | 29 |
| 20 | 3.95 | 2 | 61.7 | 15 | 41.03 | 2 | 26.5 | 12 | 18.69 | 4 | 26.3 | 1 | 48.58 | 16 | 54.0 | 32 |
| 30 | 3.97 | 6 | 60.2 | 16 | 41.05 | 7 | 25.3 | 14 | 18.73 | 8 | 26.4 | 2 | 48.42 | 7 | 50.8 | 34 |
| Juni 9 | 4.03 | 12 | 58.6 | 20 | 41.12 | 12 | 23.9 | 17 | 18.81 | 15 | 26.6 | 2 | 48.35 | 1 | 47.4 | 38 |
| 19 | 4.15 | 15 | 56.6 | 18 | 41.24 | 15 | 22.2 | 16 | 18.96 | 17 | 26.8 | 3 | 48.36 | 10 | 43.6 | 35 |
| 29 | 4.30 | 18 | 54.8 | 18 | 41.39 | 19 | 20.6 | 16 | 19.13 | 21 | 27.1 | 4 | 48.46 | 17 | 40.1 | 34 |
| Juli 9 | 4.48 | 21 | 53.0 | 18 | 41.58 | 21 | 19.0 | 15 | 19.34 | 24 | 27.5 | 5 | 48.63 | 25 | 36.7 | 33 |
| 19 | 4.69 | 24 | 51.2 | 17 | 41.79 | 24 | 17.5 | 15 | 19.58 | 27 | 28.0 | 5 | 48.88 | 32 | 33.4 | 30 |
| 29 | 4.93 | 26 | 49.5 | 16 | 42.03 | 26 | 16.0 | 14 | 19.85 | 28 | 28.5 | 5 | 49.20 | 38 | 30.4 | 26 |
| Aug. 8 | 5.19 | 27 | 47.9 | 13 | 42.29 | 28 | 14.6 | 12 | 20.13 | 31 | 29.0 | 5 | 49.58 | 43 | 27.8 | 22 |
| 18 | 5.46 | 29 | 46.6 | 10 | 42.57 | 28 | 13.4 | 10 | 20.44 | 31 | 29.5 | 4 | 50.01 | 47 | 25.6 | 16 |
| 28 | 5.75 | 29 | 45.6 | 8 | 42.85 | 30 | 12.4 | 7 | 20.75 | 32 | 29.9 | 4 | 50.48 | 50 | 24.0 | 11 |
| Sept. 7 | 6.04 | 29 | 44.8 | 5 | 43.15 | 29 | 11.7 | 4 | 21.07 | 33 | 30.3 | 4 | 50.98 | 51 | 22.9 | 4 |
| 17 | 6.33 | 30 | 44.3 | 1 | 43.44 | 30 | 11.3 | 1 | 21.40 | 32 | 30.7 | 2 | 51.49 | 51 | 22.5 | 2 |
| 27 | 6.63 | 29 | 44.2 | 3 | 43.74 | 29 | 11.2 | 2 | 21.72 | 32 | 30.9 | 2 | 52.00 | 50 | 22.7 | 9 |
| Okt. 7 | 6.92 | 28 | 44.5 | 7 | 44.03 | 28 | 11.4 | 5 | 22.04 | 31 | 31.1 | 0 | 52.50 | 48 | 23.6 | 14 |
| 17 | 7.20 | 27 | 45.2 | 9 | 44.31 | 27 | 11.9 | 8 | 22.35 | 30 | 31.1 | 0 | 52.98 | 43 | 25.0 | 21 |
| 27 | 7.47 | 25 | 46.1 | 12 | 44.58 | 26 | 12.7 | 10 | 22.65 | 28 | 31.1 | 0 | 53.41 | 38 | 27.1 | 26 |
| Nov. 6 | 7.72 | 23 | 47.3 | 14 | 44.84 | 23 | 13.7 | 12 | 22.93 | 26 | 31.1 | 1 | 53.79 | 31 | 29.7 | 30 |
| 16 | 7.95 | 20 | 48.7 | 16 | 45.07 | 20 | 14.9 | 13 | 23.19 | 23 | 31.0 | 1 | 54.10 | 24 | 32.7 | 33 |
| 26 | 8.15 | 17 | 50.3 | 16 | 45.27 | 18 | 16.2 | 14 | 23.42 | 20 | 30.9 | 1 | 54.34 | 15 | 36.0 | 35 |
| Dez. 6 | 8.32 | 14 | 51.9 | 17 | 45.45 | 14 | 17.6 | 14 | 23.62 | 16 | 30.8 | 1 | 54.49 | 7 | 39.5 | 35 |
| 16 | 8.46 | 9 | 53.6 | 17 | 45.59 | 9 | 19.0 | 14 | 23.78 | 12 | 30.7 | 0 | 54.56 | 3 | 43.0 | 35 |
| 26 | 8.55 | 4 | 55.3 | 15 | 45.68 | 6 | 20.4 | 13 | 23.90 | 7 | 30.7 | 0 | 54.53 | 12 | 46.5 | 33 |
| 36 | 8.59 | | 56.8 | | 45.74 | | 21.7 | | 23.97 | | 30.7 | | 54.41 | | 49.8 | |
| Mittl. Ort | 4.75 | | 63.9 | | 41.81 | | 29.3 | | 19.50 | | 20.4 | | 51.07 | | 52.4 | |
| | 209) | | | | 210) | | | | 211) | | | | 212) | | | |

| 1911 | α Columbae. 2^m.4. AR. | | Dekl. − | | o Aurigae. 5^m.7. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|
| | 5^h 36^m | | 34° 6′ | | 5^h 38^m | | 49° 47′ | |
| Jan. 0 | 26.62 | 1 | 74.8 | 26 | 61.17 | 5 | 26.1 | 17 |
| 10 | 26.61 | 7 | 77.4 | 25 | 61.22 | 2 | 27.8 | 17 |
| 20 | 26.54 | 12 | 79.9 | 20 | 61.20 | 8 | 29.5 | 14 |
| 30 | 26.42 | 16 | 81.9 | 17 | 61.12 | 15 | 30.9 | 13 |
| Febr. 9 | 26.26 | 19 | 83.6 | 13 | 60.97 | 19 | 32.2 | 9 |
| 19 | 26.07 | 21 | 84.9 | 8 | 60.78 | 23 | 33.1 | 8 |
| März 1 | 25.86 | 24 | 85.7 | 4 | 60.55 | 26 | 33.9 | 3 |
| 11 | 25.62 | 24 | 86.1 | 1 | 60.29 | 27 | 34.2 | 0 |
| 21 | 25.38 | 23 | 86.0 | 5 | 60.02 | 26 | 34.2 | 3 |
| 31 | 25.15 | 22 | 85.5 | 9 | 59.76 | 24 | 33.9 | 6 |
| April 10 | 24.93 | 19 | 84.6 | 14 | 59.52 | 20 | 33.3 | 9 |
| 20 | 24.74 | 16 | 83.2 | 18 | 59.32 | 15 | 32.4 | 11 |
| 30 | 24.58 | 11 | 81.4 | 20 | 59.17 | 10 | 31.3 | 14 |
| Mai 10 | 24.47 | 7 | 79.4 | 24 | 59.07 | 4 | 29.9 | 14 |
| 20 | 24.40 | 3 | 77.0 | 26 | 59.03 | 3 | 28.5 | 15 |
| 30 | 24.37 | 2 | 74.4 | 28 | 59.06 | 9 | 27.0 | 15 |
| Juni 9 | 16 24.39 | 8 | 71.6 | 33 | 17 59.15 | 17 | 25.5 | 16 |
| 19 | 24.47 | 12 | 68.3 | 30 | 59.32 | 22 | 23.9 | 13 |
| 29 | 24.59 | 16 | 65.3 | 29 | 59.54 | 28 | 22.6 | 12 |
| Juli 9 | 24.75 | 21 | 62.4 | 28 | 59.82 | 32 | 21.4 | 11 |
| 19 | 24.96 | 23 | 59.6 | 27 | 60.14 | 36 | 20.3 | 8 |
| 29 | 25.19 | 27 | 56.9 | 23 | 60.50 | 39 | 19.5 | 7 |
| Aug. 8 | 25.46 | 29 | 54.6 | 20 | 60.89 | 42 | 18.8 | 6 |
| 18 | 25.75 | 31 | 52.6 | 15 | 61.31 | 43 | 18.2 | 3 |
| 28 | 26.06 | 32 | 51.1 | 10 | 61.74 | 45 | 17.9 | 1 |
| Sept. 7 | 26.38 | 32 | 50.1 | 5 | 62.19 | 46 | 17.8 | 2 |
| 17 | 26.70 | 33 | 49.6 | 0 | 62.65 | 46 | 18.0 | 3 |
| 27 | 27.03 | 32 | 49.6 | 7 | 63.11 | 45 | 18.3 | 5 |
| Okt. 7 | 27.35 | 31 | 50.3 | 11 | 63.56 | 44 | 18.8 | 7 |
| 17 | 27.66 | 29 | 51.4 | 17 | 64.00 | 42 | 19.5 | 8 |
| 27 | 27.95 | 27 | 53.1 | 21 | 64.42 | 40 | 20.3 | 11 |
| Nov. 6 | 28.22 | 23 | 55.2 | 25 | 64.82 | 37 | 21.4 | 13 |
| 16 | 28.45 | 20 | 57.7 | 28 | 65.19 | 33 | 22.7 | 14 |
| 26 | 28.65 | 16 | 60.5 | 29 | 65.52 | 27 | 24.1 | 16 |
| Dez. 6 | 28.81 | 11 | 63.4 | 30 | 65.79 | 22 | 25.7 | 16 |
| 16 | 28.92 | 7 | 66.4 | 29 | 66.01 | 16 | 27.3 | 17 |
| 26 | 28.99 | 1 | 69.3 | 28 | 66.17 | 9 | 29.0 | 17 |
| 36 | 29.00 | | 72.1 | | 66.26 | | 30.7 | |
| Mittl. Ort | 25.52 | | 76.1 | | 60.27 | | 17.9 | |
| | 215) | | | | 216) | | | |

| 1911 | ζ Leporis. 3^m.5. AR. | | Dekl. − | | κ Orionis. 2^m.1. AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|
| | 5^h 42^m | | 14° 50′ | | 5^h 43^m | | 9° 41′ | |
| Jan. 0 | 56.07 | 2 | 73.4 | 19 | 32.78 | 3 | 58.9 | 17 |
| 10 | 56.09 | 2 | 75.3 | 17 | 32.81 | 1 | 60.6 | 16 |
| 20 | 56.07 | 6 | 77.0 | 15 | 32.80 | 6 | 62.2 | 13 |
| 30 | 56.01 | 11 | 78.5 | 13 | 32.74 | 10 | 63.5 | 10 |
| Febr. 9 | 55.90 | 14 | 79.8 | 9 | 32.64 | 13 | 64.5 | 8 |
| 19 | 55.76 | 16 | 80.7 | 7 | 32.51 | 16 | 65.3 | 6 |
| März 1 | 55.60 | 18 | 81.4 | 3 | 32.35 | 17 | 65.9 | 3 |
| 11 | 55.42 | 19 | 81.7 | 1 | 32.18 | 18 | 66.2 | 0 |
| 21 | 55.23 | 18 | 81.6 | 3 | 32.00 | 17 | 66.2 | 3 |
| 31 | 55.05 | 16 | 81.3 | 5 | 31.83 | 16 | 65.9 | 5 |
| April 10 | 54.89 | 15 | 80.8 | 9 | 31.67 | 14 | 65.4 | 8 |
| 20 | 54.74 | 12 | 79.9 | 12 | 31.53 | 11 | 64.6 | 10 |
| 30 | 54.62 | 8 | 78.7 | 15 | 31.42 | 7 | 63.6 | 12 |
| Mai 10 | 54.54 | 4 | 77.2 | 17 | 31.35 | 4 | 62.4 | 15 |
| 20 | 54.50 | 0 | 75.5 | 18 | 31.31 | 1 | 60.9 | 16 |
| 30 | 54.50 | 5 | 73.7 | 21 | 31.32 | 5 | 59.3 | 18 |
| Juni 9 | 17 54.55 | 10 | 71.6 | 23 | 18 31.37 | 10 | 57.5 | 21 |
| 19 | 54.65 | 13 | 69.3 | 22 | 31.47 | 14 | 55.4 | 20 |
| 29 | 54.78 | 16 | 67.1 | 23 | 31.61 | 16 | 53.4 | 20 |
| Juli 9 | 54.94 | 20 | 64.8 | 21 | 31.77 | 20 | 51.4 | 19 |
| 19 | 55.14 | 23 | 62.7 | 20 | 31.97 | 23 | 49.5 | 19 |
| 29 | 55.37 | 24 | 60.7 | 19 | 32.20 | 25 | 47.6 | 16 |
| Aug. 8 | 55.61 | 27 | 58.8 | 15 | 32.45 | 26 | 46.0 | 14 |
| 18 | 55.88 | 28 | 57.3 | 13 | 32.71 | 28 | 44.6 | 12 |
| 28 | 56.16 | 29 | 56.0 | 8 | 32.99 | 29 | 43.4 | 8 |
| Sept. 7 | 56.45 | 30 | 55.2 | 5 | 33.28 | 30 | 42.6 | 4 |
| 17 | 56.75 | 30 | 54.7 | 1 | 33.58 | 29 | 42.2 | 1 |
| 27 | 57.05 | 29 | 54.6 | 4 | 33.87 | 30 | 42.1 | 3 |
| Okt. 7 | 57.34 | 29 | 55.0 | 8 | 34.17 | 28 | 42.4 | 7 |
| 17 | 57.63 | 27 | 55.8 | 12 | 34.45 | 28 | 43.1 | 11 |
| 27 | 57.90 | 26 | 57.0 | 15 | 34.73 | 26 | 44.2 | 13 |
| Nov. 6 | 58.16 | 24 | 58.5 | 19 | 34.99 | 23 | 45.5 | 16 |
| 16 | 58.40 | 20 | 60.4 | 20 | 35.22 | 21 | 47.1 | 18 |
| 26 | 58.60 | 18 | 62.4 | 21 | 35.43 | 18 | 48.9 | 19 |
| Dez. 6 | 58.78 | 14 | 64.5 | 22 | 35.61 | 15 | 50.8 | 19 |
| 16 | 58.92 | 9 | 66.7 | 21 | 35.76 | 10 | 52.7 | 19 |
| 26 | 59.01 | 4 | 68.8 | 21 | 35.86 | 5 | 54.6 | 18 |
| 36 | 59.05 | | 70.9 | | 35.91 | | 56.4 | |
| Mittl. Ort | 55.34 | | 76.3 | | 32.11 | | 62.3 | |
| | 219) | | | | 220) | | | |

| 1911 | α Orionis. 1ᵐ. | | | | δ Aurigae. 3ᵐ.8. | | | | β Aurigae. 1ᵐ.9. | | | | θ Aurigae. 2ᵐ.7. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. + | |
| | $5^h\ 50^m$ | | 7° 23′ | | $5^h\ 52^m$ | | 54° 16′ | | $5^h\ 52^m$ | | 44° 56′ | | $5^h\ 53^m$ | | 37° 12′ | |
| Jan. 0 | 21.76 | 5 | 33.1 | 8 | 13.03 | 7 | 52.0 | 20 | 60.85 | 7 | 28.8 | 15 | 39.84 | 7 | 32.8 | 10 |
| 10 | 21.81 | 1 | 32.3 | 7 | 13.10 | 1 | 54.0 | 19 | 60.92 | 1 | 30.3 | 14 | 39.91 | 1 | 33.8 | 10 |
| 20 | 21.82 | 4 | 31.6 | 5 | 13.09 | 8 | 55.9 | 17 | 60.93 | 6 | 31.7 | 13 | 39.92 | 5 | 34.8 | 9 |
| 30 | 21.78 | 8 | 31.1 | 4 | 13.01 | 15 | 57.6 | 15 | 60.87 | 11 | 33.0 | 11 | 39.87 | 9 | 35.7 | 8 |
| Febr. 9 | 21.70 | 12 | 30.7 | 4 | 12.86 | 21 | 59.1 | 12 | 60.76 | 16 | 34.1 | 9 | 39.78 | 14 | 36.5 | 7 |
| 19 | 21.58 | 14 | 30.3 | 2 | 12.65 | 26 | 60.3 | 9 | 60.60 | 20 | 35.0 | 7 | 39.64 | 18 | 37.2 | 5 |
| März 1 | 21.44 | 16 | 30.1 | 1 | 12.39 | 29 | 61.2 | 5 | 60.40 | 23 | 35.7 | 5 | 39.46 | 20 | 37.7 | 3 |
| 11 | 21.28 | 17 | 30.0 | 0 | 12.10 | 30 | 61.7 | 2 | 60.17 | 24 | 36.2 | 1 | 39.26 | 21 | 38.0 | 1 |
| 21 | 21.11 | 17 | 30.0 | 1 | 11.80 | 29 | 61.9 | 2 | 59.93 | 24 | 36.3 | 1 | 39.05 | 20 | 38.1 | 1 |
| 31 | 20.94 | 15 | 30.1 | 2 | 11.51 | 28 | 61.7 | 6 | 59.69 | 22 | 36.2 | 4 | 38.85 | 19 | 38.0 | 3 |
| April 10 | 20.79 | 13 | 30.3 | 4 | 11.23 | 24 | 61.1 | 9 | 59.47 | 19 | 35.8 | 7 | 38.66 | 16 | 37.7 | 4 |
| 20 | 20.66 | 10 | 30.7 | 4 | 10.99 | 19 | 60.2 | 12 | 59.28 | 14 | 35.1 | 9 | 38.50 | 13 | 37.3 | 6 |
| 30 | 20.56 | 7 | 31.1 | 5 | 10.80 | 13 | 59.0 | 14 | 59.14 | 10 | 34.2 | 11 | 38.37 | 8 | 36.7 | 8 |
| Mai 10 | 20.49 | 2 | 31.6 | 7 | 10.67 | 6 | 57.6 | 16 | 59.04 | 5 | 33.1 | 11 | 38.29 | 4 | 35.9 | 8 |
| 20 | 20.47 | 1 | 32.3 | 8 | 10.61 | 0 | 56.0 | 17 | 58.99 | 2 | 32.0 | 12 | 38.25 | 2 | 35.1 | 8 |
| 30 | 20.48 | 6 | 33.1 | 8 | 10.61 | 8 | 54.3 | 17 | 59.01 | 7 | 30.8 | 12 | 38.27 | 7 | 34.3 | 8 |
| Juni 9 | 20.54 | 10 | 33.9 | 10 | 10.69 | 14 | 52.6 | 17 | 59.08 | 13 | 29.6 | 13 | 38.34 | 12 | 33.5 | 8 |
| 19 | 20.64 | 15 | 34.9 | 11 | 10.83 | 24 | 50.9 | 18 | 59.21 | 21 | 28.3 | 13 | 38.46 | 19 | 32.7 | 8 |
| 29 | [19] 20.79 | 18 | 36.0 | 11 | [20] 11.07 | 28 | 49.1 | 15 | [20] 59.42 | 24 | 27.0 | 10 | [20] 38.65 | 22 | 31.9 | 6 |
| Juli 9 | 20.97 | 21 | 37.1 | 11 | 11.35 | 32 | 47.6 | 14 | 59.66 | 28 | 26.0 | 9 | 38.87 | 26 | 31.3 | 6 |
| 19 | 21.18 | 23 | 38.2 | 10 | 11.67 | 38 | 46.2 | 12 | 59.94 | 32 | 25.1 | 8 | 39.13 | 29 | 30.7 | 4 |
| 29 | 21.41 | 26 | 39.2 | 10 | 12.05 | 41 | 45.0 | 10 | 60.26 | 35 | 24.3 | 7 | 39.42 | 31 | 30.3 | 3 |
| Aug. 8 | 21.67 | 27 | 40.2 | 9 | 12.46 | 45 | 44.0 | 8 | 60.61 | 38 | 23.6 | 5 | 39.73 | 34 | 30.0 | 3 |
| 18 | 21.94 | 29 | 41.1 | 7 | 12.91 | 47 | 43.2 | 6 | 60.99 | 39 | 23.1 | 3 | 40.07 | 35 | 29.7 | 1 |
| 28 | 22.23 | 29 | 41.8 | 5 | 13.38 | 49 | 42.6 | 3 | 61.38 | 41 | 22.8 | 2 | 40.42 | 37 | 29.6 | 1 |
| Sept. 7 | 22.52 | 31 | 42.3 | 3 | 13.87 | 50 | 42.3 | 1 | 61.79 | 42 | 22.6 | 0 | 40.79 | 38 | 29.5 | 1 |
| 17 | 22.83 | 30 | 42.6 | 1 | 14.37 | 50 | 42.2 | 1 | 62.21 | 42 | 22.6 | 1 | 41.17 | 38 | 29.6 | 1 |
| 27 | 23.13 | 30 | 42.7 | 1 | 14.87 | 50 | 42.3 | 4 | 62.63 | 42 | 22.7 | 3 | 41.55 | 38 | 29.7 | 2 |
| Okt. 7 | 23.43 | 29 | 42.6 | 3 | 15.37 | 49 | 42.7 | 6 | 63.05 | 41 | 23.0 | 4 | 41.93 | 37 | 29.9 | 2 |
| 17 | 23.72 | 29 | 42.3 | 6 | 15.86 | 48 | 43.3 | 8 | 63.46 | 40 | 23.4 | 6 | 42.30 | 36 | 30.1 | 4 |
| 27 | 24.01 | 28 | 41.7 | 7 | 16.34 | 45 | 44.1 | 11 | 63.86 | 38 | 24.0 | 7 | 42.66 | 34 | 30.5 | 4 |
| Nov. 6 | 24.29 | 25 | 41.0 | 9 | 16.79 | 41 | 45.2 | 13 | 64.24 | 36 | 24.7 | 9 | 43.00 | 32 | 30.9 | 6 |
| 16 | 24.54 | 23 | 40.1 | 9 | 17.20 | 38 | 46.5 | 15 | 64.60 | 32 | 25.6 | 11 | 43.32 | 30 | 31.5 | 6 |
| 26 | 24.77 | 20 | 39.2 | 10 | 17.58 | 32 | 48.0 | 17 | 64.92 | 27 | 26.7 | 11 | 43.62 | 25 | 32.1 | 7 |
| Dez. 6 | 24.97 | 16 | 38.2 | 10 | 17.90 | 25 | 49.7 | 18 | 65.19 | 23 | 27.8 | 13 | 43.87 | 21 | 32.8 | 9 |
| 16 | 25.13 | 12 | 37.2 | 9 | 18.15 | 19 | 51.5 | 19 | 65.42 | 17 | 29.1 | 14 | 44.08 | 16 | 33.7 | 9 |
| 26 | 25.25 | 8 | 36.3 | 9 | 18.34 | 12 | 53.4 | 20 | 65.59 | 10 | 30.5 | 14 | 44.24 | 10 | 34.6 | 9 |
| 36 | 25.33 | | 35.4 | | 18.46 | | 55.4 | | 65.69 | | 31.9 | | 44.34 | | 35.5 | |
| Mittl. Ort | 21.18 | | 28.3 | | 11.92 | | 44.1 | | 60.02 | | 21.5 | | 39.13 | | 25.9 | |
| | 224) | | | | 225) | | | | 227) | | | | 228) | | | |

| 1911 | η Columbae. $3^m.9$ | | | | ν Orionis. $4^m.4$ | | | | 22H.Camelop. $4^m.6$ | | | | η Geminorum. $3^m.3$ | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | Δ | Dekl. − | Δ | AR. | Δ | Dekl. + | Δ | AR. | Δ | Dekl. + | Δ | AR. | Δ | Dekl. + | Δ |
| | $5^h\,56^m$ | | 42° 48′ | | $6^h\,2^m$ | | 14° 46′ | | $6^h\,9^m$ | | 69° 21′ | | $6^h\,9^m$ | | 22° 32′ | |
| Jan. 0 | $26^s.74$ | 1 | 68″.9 | 30 | $30^s.01$ | 6 | 52″.4 | 4 | $4^s.79$ | 11 | 17″.0 | 27 | $30^s.94$ | 9 | 5″.9 | 1 |
| 10 | 26.73 | 8 | 71.9 | 28 | 30.07 | 2 | 52.0 | 3 | 4.90 | 3 | 19.7 | 26 | 31.03 | 2 | 6.0 | 1 |
| 20 | 26.65 | 13 | 74.7 | 25 | 30.09 | 3 | 51.7 | 2 | 4.87 | 15 | 22.3 | 24 | 31.05 | 2 | 6.1 | 2 |
| 30 | 26.52 | 18 | 77.2 | 20 | 30.06 | 7 | 51.5 | 2 | 4.72 | 26 | 24.7 | 22 | 31.03 | 6 | 6.3 | 2 |
| Febr. 9 | 26.34 | 22 | 79.2 | 16 | 29.99 | 11 | 51.3 | 0 | 4.46 | 37 | 26.9 | 18 | 30.97 | 12 | 6.5 | 3 |
| 19 | 26.12 | 25 | 80.8 | 11 | 29.88 | 14 | 51.3 | 0 | 4.09 | 44 | 28.7 | 14 | 30.85 | 14 | 6.8 | 2 |
| März 1 | 25.87 | 28 | 81.9 | 7 | 29.74 | 16 | 51.3 | 0 | 3.65 | 49 | 30.1 | 9 | 30.71 | 16 | 7.0 | 1 |
| 11 | 25.59 | 28 | 82.6 | 1 | 29.58 | 17 | 51.3 | 0 | 3.16 | 53 | 31.0 | 4 | 30.55 | 18 | 7.1 | 2 |
| 21 | 25.31 | 28 | 82.7 | 3 | 29.41 | 17 | 51.3 | 1 | 2.63 | 52 | 31.4 | 1 | 30.37 | 18 | 7.3 | 0 |
| 31 | 25.03 | 27 | 82.4 | 8 | 29.24 | 16 | 51.4 | 1 | 2.11 | 50 | 31.3 | 6 | 30.19 | 16 | 7.3 | 1 |
| April 10 | 24.76 | 24 | 81.6 | 13 | 29.08 | 13 | 51.5 | 1 | 1.61 | 46 | 30.7 | 10 | 30.03 | 15 | 7.4 | 1 |
| 20 | 24.52 | 21 | 80.3 | 17 | 28.95 | 11 | 51.6 | 2 | 1.15 | 38 | 29.7 | 14 | 29.88 | 11 | 7.3 | 0 |
| 30 | 24.31 | 17 | 78.6 | 21 | 28.84 | 7 | 51.8 | 2 | 0.77 | 29 | 28.3 | 18 | 29.77 | 9 | 7.3 | 1 |
| Mai 10 | 24.14 | 12 | 76.5 | 23 | 28.77 | 3 | 52.0 | 3 | 0.48 | 19 | 26.5 | 20 | 29.68 | 3 | 7.2 | 1 |
| 20 | 24.02 | 7 | 74.2 | 29 | 28.74 | 1 | 52.3 | 4 | 0.29 | 8 | 24.5 | 23 | 29.65 | 0 | 7.1 | 0 |
| 30 | 23.95 | 2 | 71.3 | 29 | 28.75 | 5 | 52.7 | 4 | 0.21 | 2 | 22.2 | 24 | 29.65 | 5 | 7.1 | 1 |
| Juni 9 | 23.93 | 3 | 68.4 | 31 | 28.80 | 10 | 53.1 | 5 | 0.23 | 14 | 19.8 | 24 | 29.70 | 10 | 7.0 | 1 |
| 19 | 23.96 | 10 | 65.3 | 35 | 28.90 | 15 | 53.6 | 6 | 0.37 | 27 | 17.4 | 26 | 29.80 | 15 | 7.1 | 1 |
| 29 | [21]24.06 | 13 | 61.8 | 32 | [22]29.05 | 18 | 54.2 | 7 | [24]0.64 | 36 | 14.8 | 24 | [24]29.95 | 18 | 7.2 | 1 |
| Juli 9 | 24.19 | 19 | 58.6 | 30 | 29.23 | 21 | 54.9 | 6 | 1.00 | 46 | 12.4 | 21 | 30.13 | 21 | 7.3 | 2 |
| 19 | 24.38 | 22 | 55.6 | 29 | 29.44 | 23 | 55.5 | 6 | 1.46 | 53 | 10.3 | 20 | 30.34 | 24 | 7.5 | 2 |
| 29 | 24.60 | 26 | 52.7 | 26 | 29.67 | 26 | 56.1 | 6 | 1.99 | 61 | 8.3 | 17 | 30.58 | 26 | 7.7 | 2 |
| Aug. 8 | 24.86 | 30 | 50.1 | 22 | 29.93 | 28 | 56.7 | 6 | 2.60 | 67 | 6.6 | 14 | 30.84 | 29 | 7.9 | 2 |
| 18 | 25.16 | 32 | 47.9 | 17 | 30.21 | 29 | 57.3 | 4 | 3.27 | 72 | 5.2 | 12 | 31.13 | 30 | 8.1 | 2 |
| 28 | 25.48 | 34 | 46.2 | 12 | 30.50 | 30 | 57.7 | 3 | 3.99 | 75 | 4.0 | 9 | 31.43 | 31 | 8.3 | 1 |
| Sept. 7 | 25.82 | 35 | 45.0 | 7 | 30.80 | 31 | 58.0 | 2 | 4.74 | 79 | 3.1 | 5 | 31.74 | 33 | 8.4 | 0 |
| 17 | 26.17 | 35 | 44.3 | 1 | 31.11 | 32 | 58.2 | 1 | 5.53 | 80 | 2.6 | 1 | 32.07 | 32 | 8.4 | 0 |
| 27 | 26.52 | 36 | 44.2 | 6 | 31.43 | 31 | 58.3 | 1 | 6.33 | 80 | 2.5 | 2 | 32.39 | 33 | 8.4 | 1 |
| Okt. 7 | 26.88 | 34 | 44.8 | 11 | 31.74 | 31 | 58.2 | 3 | 7.13 | 79 | 2.7 | 6 | 32.72 | 33 | 8.3 | 2 |
| 17 | 27.22 | 33 | 45.9 | 17 | 32.05 | 30 | 57.9 | 4 | 7.92 | 77 | 3.3 | 10 | 33.05 | 32 | 8.1 | 2 |
| 27 | 27.55 | 30 | 47.6 | 22 | 32.35 | 29 | 57.5 | 5 | 8.69 | 72 | 4.3 | 13 | 33.37 | 31 | 7.9 | 2 |
| Nov. 6 | 27.85 | 27 | 49.8 | 26 | 32.64 | 27 | 57.0 | 5 | 9.41 | 67 | 5.6 | 16 | 33.68 | 29 | 7.7 | 3 |
| 16 | 28.12 | 23 | 52.4 | 30 | 32.91 | 24 | 56.5 | 7 | 10.08 | 60 | 7.2 | 20 | 33.97 | 27 | 7.4 | 2 |
| 26 | 28.35 | 18 | 55.4 | 31 | 33.15 | 22 | 55.8 | 6 | 10.68 | 52 | 9.2 | 22 | 34.24 | 23 | 7.2 | 2 |
| Dez. 6 | 28.53 | 13 | 58.5 | 33 | 33.37 | 19 | 55.2 | 6 | 11.20 | 42 | 11.4 | 25 | 34.47 | 20 | 7.0 | 2 |
| 16 | 28.66 | 7 | 61.8 | 33 | 33.56 | 14 | 54.6 | 5 | 11.62 | 30 | 13.9 | 26 | 34.67 | 16 | 6.8 | 0 |
| 26 | 28.73 | 2 | 65.1 | 31 | 33.70 | 9 | 54.1 | 4 | 11.92 | 17 | 16.5 | 26 | 34.83 | 11 | 6.8 | 0 |
| 36 | 28.75 | | 68.2 | | 33.79 | | 53.7 | | 12.09 | | 19.1 | | 34.94 | | 6.8 | |
| Mittl. Ort | 25.34 | | 71.3 | | 29.43 | | 47.0 | | 2.48 | | 9.4 | | 30.33 | | 0.2 | |
| | 229) | | | | 232) | | | | 234) | | | | 236) | | | |

| 1911 | ξ Canis maj. 2m.9. AR. | | Dekl. — | | μ Geminorum. 2m.9. AR. | | Dekl. + | | ψ¹ Aurigae. 5m.1. AR. | | Dekl. + | | β Canis maj. 2m.0. AR. | | Dekl. — | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6h 16m | | 30° 1' | | 6h 17m | | 22° 33' | | 6h 18m | | 49° 20' | | 6h 18m | | 17° 54' | |
| Jan. 0 | 54.76 | 4 | 19.6 | 28 | 35.22 | 9 | 41.8 | 1 | 3.73 | 10 | 10.0 | 17 | 47.59 | 5 | 35.7 | 22 |
| 10 | 54.80 | 2 | 22.4 | 25 | 35.31 | 4 | 41.9 | 1 | 3.83 | 4 | 11.7 | 16 | 47.64 | 1 | 37.9 | 21 |
| 20 | 54.78 | 7 | 24.9 | 23 | 35.35 | 1 | 42.0 | 2 | 3.87 | 4 | 13.3 | 16 | 47.65 | 4 | 40.0 | 18 |
| 30 | 54.71 | 11 | 27.2 | 19 | 35.34 | 6 | 42.2 | 2 | 3.83 | 10 | 14.9 | 15 | 47.61 | 9 | 41.8 | 15 |
| Febr. 9 | 54.60 | 16 | 29.1 | 16 | 35.28 | 11 | 42.4 | 3 | 3.73 | 15 | 16.4 | 13 | 47.52 | 12 | 43.3 | 13 |
| 19 | 54.44 | 18 | 30.7 | 11 | 35.17 | 14 | 42.7 | 2 | 3.58 | 21 | 17.7 | 10 | 47.40 | 15 | 44.6 | 9 |
| März 1 | 54.26 | 21 | 31.8 | 8 | 35.03 | 16 | 42.9 | 2 | 3.37 | 24 | 18.7 | 7 | 47.25 | 18 | 45.5 | 5 |
| 11 | 54.05 | 22 | 32.6 | 3 | 34.87 | 17 | 43.1 | 2 | 3.13 | 26 | 19.4 | 4 | 47.07 | 19 | 46.0 | 3 |
| 21 | 53.83 | 22 | 32.9 | 1 | 34.70 | 18 | 43.3 | 1 | 2.87 | 26 | 19.8 | 1 | 46.88 | 19 | 46.3 | 1 |
| 31 | 53.61 | 22 | 32.8 | 5 | 34.52 | 17 | 43.4 | 0 | 2.61 | 25 | 19.9 | 3 | 46.69 | 18 | 46.2 | 4 |
| April 10 | 53.39 | 19 | 32.3 | 10 | 34.35 | 14 | 43.4 | 0 | 2.36 | 22 | 19.6 | 6 | 46.51 | 17 | 45.8 | 8 |
| 20 | 53.20 | 17 | 31.3 | 13 | 34.21 | 12 | 43.4 | 1 | 2.14 | 19 | 19.0 | 8 | 46.34 | 14 | 45.0 | 11 |
| 30 | 53.03 | 14 | 30.0 | 15 | 34.09 | 9 | 43.3 | 0 | 1.95 | 14 | 18.2 | 11 | 46.20 | 10 | 43.9 | 13 |
| Mai 10 | 52.89 | 9 | 28.5 | 20 | 34.00 | 5 | 43.3 | 1 | 1.81 | 8 | 17.1 | 12 | 46.10 | 8 | 42.6 | 16 |
| 20 | 52.80 | 6 | 26.5 | 23 | 33.95 | 0 | 43.2 | 0 | 1.73 | 2 | 15.9 | 14 | 46.02 | 3 | 41.0 | 18 |
| 30 | 52.74 | 1 | 24.2 | 25 | 33.95 | 5 | 43.2 | 1 | 1.71 | 4 | 14.5 | 15 | 45.99 | 1 | 39.2 | 20 |
| Juni 9 | 52.73 | 4 | 21.7 | 26 | 34.00 | 8 | 43.1 | 0 | 1.75 | 10 | 13.0 | 15 | 46.00 | 5 | 37.2 | 22 |
| 19 | 52.77 | 9 | 19.1 | 30 | 34.08 | 14 | 43.1 | 1 | 1.85 | 18 | 11.5 | 16 | 46.05 | 10 | 35.0 | 24 |
| 29 | [26] 52.86 | 12 | 16.1 | 28 | [26] 34.22 | 17 | 43.2 | 1 | [26] 2.03 | 22 | 9.9 | 14 | [26] 46.15 | 13 | 32.6 | 23 |
| Juli 9 | 52.98 | 16 | 13.3 | 27 | 34.39 | 21 | 43.3 | 1 | 2.25 | 27 | 8.5 | 13 | 46.28 | 17 | 30.3 | 22 |
| 19 | 53.14 | 19 | 10.6 | 26 | 34.60 | 23 | 43.4 | 2 | 2.52 | 32 | 7.2 | 12 | 46.45 | 19 | 28.1 | 21 |
| 29 | 53.33 | 23 | 8.0 | 23 | 34.83 | 26 | 43.6 | 1 | 2.84 | 35 | 6.0 | 11 | 46.64 | 22 | 26.0 | 20 |
| Aug. 8 | 53.56 | 26 | 5.7 | 20 | 35.09 | 28 | 43.7 | 2 | 3.19 | 38 | 4.9 | 9 | 46.86 | 25 | 24.0 | 17 |
| 18 | 53.82 | 28 | 3.7 | 17 | 35.37 | 30 | 43.9 | 1 | 3.57 | 41 | 4.0 | 8 | 47.11 | 26 | 22.3 | 13 |
| 28 | 54.10 | 29 | 2.0 | 12 | 35.67 | 30 | 44.0 | 0 | 3.98 | 43 | 3.2 | 6 | 47.37 | 28 | 21.0 | 10 |
| Sept. 7 | 54.39 | 31 | 0.8 | 7 | 35.97 | 33 | 44.0 | 0 | 4.41 | 45 | 2.6 | 4 | 47.65 | 29 | 20.0 | 6 |
| 17 | 54.70 | 32 | 0.1 | 1 | 36.30 | 33 | 44.0 | 1 | 4.86 | 45 | 2.2 | 2 | 47.94 | 30 | 19.4 | 1 |
| 27 | 55.02 | 31 | 0.0 | 3 | 36.63 | 33 | 43.9 | 1 | 5.31 | 46 | 2.0 | 0 | 48.24 | 31 | 19.3 | 3 |
| Okt. 7 | 55.33 | 32 | 0.3 | 9 | 36.96 | 33 | 43.8 | 3 | 5.77 | 45 | 2.0 | 2 | 48.55 | 30 | 19.6 | 7 |
| 17 | 55.65 | 31 | 1.2 | 14 | 37.29 | 32 | 43.5 | 3 | 6.22 | 45 | 2.2 | 4 | 48.85 | 29 | 20.3 | 13 |
| 27 | 55.96 | 29 | 2.6 | 19 | 37.61 | 32 | 43.2 | 3 | 6.67 | 43 | 2.6 | 6 | 49.14 | 28 | 21.6 | 16 |
| Nov. 6 | 56.25 | 26 | 4.5 | 22 | 37.93 | 29 | 42.9 | 3 | 7.10 | 40 | 3.2 | 8 | 49.42 | 26 | 23.2 | 18 |
| 16 | 56.51 | 24 | 6.7 | 26 | 38.22 | 28 | 42.6 | 3 | 7.50 | 37 | 4.0 | 10 | 49.68 | 24 | 25.0 | 22 |
| 26 | 56.75 | 21 | 9.3 | 28 | 38.50 | 24 | 42.3 | 2 | 7.87 | 33 | 5.0 | 12 | 49.92 | 21 | 27.2 | 23 |
| Dez. 6 | 56.96 | 16 | 12.1 | 29 | 38.74 | 21 | 42.1 | 2 | 8.20 | 28 | 6.2 | 14 | 50.13 | 17 | 29.5 | 25 |
| 16 | 57.12 | 12 | 15.0 | 29 | 38.95 | 17 | 41.9 | 1 | 8.48 | 21 | 7.6 | 16 | 50.30 | 12 | 32.0 | 24 |
| 26 | 57.24 | 6 | 17.9 | 29 | 39.12 | 12 | 41.8 | 0 | 8.69 | 15 | 9.2 | 16 | 50.42 | 8 | 34.4 | 23 |
| 36 | 57.30 | | 20.8 | | 39.24 | | 41.8 | | 8.84 | | 10.8 | | 50.50 | | 36.7 | |
| Mittl. Ort | 53.76 | | 23.8 | | 34.60 | | 36.3 | | 2.70 | | 3.5 | | 46.80 | | 40.1 | |
| | 240) | | | | 241) | | | | 242) | | | | 243) | | | |

| 1911 | 8 Monocerot. $4^m.5$. | | | | α Argus. $1^m$. | | | | 10 Monocerot. $5^m.0$. | | | | 8 Lyncis. $6^m.3$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. — | | AR. | | Dekl. — | | AR. | | Dekl. + | |
| | $6^h\ 19^m$ | | $4°\ 38'$ | | $6^h\ 21^m$ | | $52°\ 38'$ | | $6^h\ 23^m$ | | $4°\ 42'$ | | $6^h\ 29^m$ | | $61°\ 33'$ | |
| | s | | " | | s | | " | | s | | " | | s | | " | |
| Jan. 0 | 3.74 | 8 | 24.3 | 10 | 60.38 | 3 | 43.7 | 35 | 34.54 | 7 | 18.7 | 16 | 35.21 | 14 | 43.9 | 23 |
| 10 | 3.82 | 3 | 23.3 | 9 | 60.35 | 7 | 47.2 | 30 | 34.61 | 3 | 20.3 | 14 | 35.35 | 4 | 46.2 | 23 |
| 20 | 3.85 | 2 | 22.4 | 8 | 60.28 | 16 | 50.2 | 29 | 34.64 | 2 | 21.7 | 12 | 35.39 | 5 | 48.5 | 22 |
| 30 | 3.83 | 6 | 21.6 | 6 | 60.12 | 22 | 53.1 | 25 | 34.62 | 7 | 22.9 | 11 | 35.34 | 14 | 50.7 | 20 |
| Febr. 9 | 3.77 | 10 | 21.0 | 4 | 59.90 | 26 | 55.6 | 20 | 34.55 | 10 | 24.0 | 8 | 35.20 | 22 | 52.7 | 17 |
| 19 | 3.67 | 13 | 20.6 | 3 | 59.64 | 31 | 57.6 | 15 | 34.45 | 14 | 24.8 | 5 | 34.98 | 29 | 54.4 | 15 |
| März 1 | 3.54 | 16 | 20.3 | 2 | 59.33 | 34 | 59.1 | 11 | 34.31 | 15 | 25.3 | 4 | 34.69 | 34 | 55.9 | 10 |
| 11 | 3.38 | 16 | 20.1 | 0 | 58.99 | 36 | 60.2 | 5 | 34.16 | 17 | 25.7 | 1 | 34.35 | 37 | 56.9 | 6 |
| 21 | 3.22 | 17 | 20.1 | 1 | 58.63 | 36 | 60.7 | 0 | 33.99 | 18 | 25.8 | 1 | 33.98 | 38 | 57.5 | 2 |
| 31 | 3.05 | 16 | 20.2 | 2 | 58.27 | 35 | 60.7 | 5 | 33.81 | 16 | 25.7 | 3 | 33.60 | 36 | 57.7 | 3 |
| April 10 | 2.89 | 14 | 20.4 | 4 | 57.92 | 32 | 60.2 | 10 | 33.65 | 15 | 25.4 | 5 | 33.24 | 33 | 57.4 | 7 |
| 20 | 2.75 | 12 | 20.8 | 5 | 57.60 | 30 | 59.2 | 16 | 33.50 | 12 | 24.9 | 7 | 32.91 | 29 | 56.7 | 10 |
| 30 | 2.63 | 9 | 21.3 | 6 | 57.30 | 25 | 57.6 | 19 | 33.38 | 10 | 24.2 | 9 | 32.62 | 23 | 55.7 | 14 |
| Mai 10 | 2.54 | 4 | 21.9 | 7 | 57.05 | 21 | 55.7 | 23 | 33.28 | 6 | 23.3 | 11 | 32.39 | 15 | 54.3 | 17 |
| 20 | 2.50 | 1 | 22.6 | 9 | 56.84 | 15 | 53.4 | 27 | 33.22 | 1 | 22.2 | 13 | 32.24 | 8 | 52.6 | 19 |
| 30 | 2.49 | 3 | 23.5 | 9 | 56.69 | 9 | 50.7 | 30 | 33.21 | 2 | 20.9 | 14 | 32.16 | 1 | 50.7 | 20 |
| Juni 9 | 2.52 | 8 | 24.4 | 10 | 56.60 | 4 | 47.7 | 31 | 33.23 | 6 | 19.5 | 15 | 32.17 | 8 | 48.7 | 21 |
| 19 | 2.60 | 12 | 25.4 | 12 | 56.56 | 4 | 44.6 | 36 | 33.29 | 10 | 18.0 | 18 | 32.25 | 17 | 46.6 | 21 |
| 29 | [26] 2.72 | 15 | 26.6 | 12 | [27] 56.60 | 10 | 41.0 | 33 | [27] 33.39 | 14 | 16.2 | 16 | [29] 32.42 | 27 | 44.5 | 23 |
| Juli 9 | 2.87 | 18 | 27.8 | 11 | 56.70 | 15 | 37.7 | 33 | 33.53 | 17 | 14.6 | 16 | 32.69 | 32 | 42.2 | 20 |
| 19 | 3.05 | 20 | 28.9 | 11 | 56.85 | 21 | 34.4 | 31 | 33.70 | 20 | 13.0 | 15 | 33.01 | 39 | 40.2 | 18 |
| 29 | 3.25 | 23 | 30.0 | 10 | 57.06 | 25 | 31.3 | 29 | 33.90 | 22 | 11.5 | 14 | 33.40 | 44 | 38.4 | 17 |
| Aug. 8 | 3.48 | 26 | 31.0 | 8 | 57.31 | 31 | 28.4 | 24 | 34.12 | 24 | 10.1 | 12 | 33.84 | 48 | 36.7 | 15 |
| 18 | 3.74 | 27 | 31.8 | 7 | 57.62 | 34 | 26.0 | 20 | 34.36 | 27 | 8.9 | 10 | 34.32 | 53 | 35.2 | 12 |
| 28 | 4.01 | 28 | 32.5 | 5 | 57.96 | 37 | 24.0 | 16 | 34.63 | 27 | 7.9 | 7 | 34.85 | 56 | 34.0 | 10 |
| Sept. 7 | 4.29 | 29 | 33.0 | 3 | 58.33 | 39 | 22.4 | 9 | 34.90 | 29 | 7.2 | 4 | 35.41 | 58 | 33.0 | 7 |
| 17 | 4.58 | 30 | 33.3 | 0 | 58.72 | 41 | 21.5 | 3 | 35.19 | 29 | 6.8 | 0 | 35.99 | 60 | 32.3 | 4 |
| 27 | 4.88 | 31 | 33.3 | 3 | 59.13 | 41 | 21.2 | 3 | 35.48 | 30 | 6.8 | 3 | 36.59 | 61 | 31.9 | 2 |
| Okt. 7 | 5.19 | 30 | 33.0 | 5 | 59.54 | 41 | 21.5 | 9 | 35.78 | 30 | 7.1 | 6 | 37.20 | 61 | 31.7 | 1 |
| 17 | 5.49 | 29 | 32.5 | 7 | 59.95 | 39 | 22.4 | 16 | 36.08 | 29 | 7.7 | 10 | 37.81 | 59 | 31.8 | 5 |
| 27 | 5.78 | 29 | 31.8 | 9 | 60.34 | 37 | 24.0 | 22 | 36.37 | 28 | 8.7 | 12 | 38.40 | 58 | 32.3 | 8 |
| Nov. 6 | 6.07 | 27 | 30.9 | 11 | 60.71 | 33 | 26.2 | 26 | 36.65 | 27 | 9.9 | 14 | 38.98 | 55 | 33.1 | 12 |
| 16 | 6.34 | 25 | 29.8 | 12 | 61.04 | 28 | 28.8 | 30 | 36.92 | 25 | 11.3 | 17 | 39.53 | 49 | 34.3 | 14 |
| 26 | 6.59 | 22 | 28.6 | 12 | 61.32 | 22 | 31.8 | 33 | 37.17 | 22 | 13.0 | 17 | 40.02 | 44 | 35.7 | 17 |
| Dez. 6 | 6.81 | 19 | 27.4 | 13 | 61.54 | 16 | 35.1 | 35 | 37.39 | 18 | 14.7 | 18 | 40.46 | 37 | 37.4 | 19 |
| 16 | 7.00 | 15 | 26.1 | 12 | 61.70 | 10 | 38.6 | 36 | 37.57 | 14 | 16.5 | 17 | 40.83 | 28 | 39.3 | 21 |
| 26 | 7.15 | 10 | 24.9 | 11 | 61.80 | 2 | 42.2 | 35 | 37.71 | 10 | 18.2 | 17 | 41.11 | 20 | 41.4 | 23 |
| 36 | 7.25 | | 23.8 | | 61.82 | | 45.7 | | 37.81 | | 19.9 | | 41.31 | | 43.7 | |
| Mittl. Ort | 3.13 | | 19.4 | | 58.51 | | 48.2 | | 33.88 | | 23.5 | | 33.56 | | 37.8 | |
| | 244) | | | | 245) | | | | 246) | | | | 247) | | | |

| 1911 | 23 H. Camelop. $5^m.6$. AR. | | Dekl. + | | $\xi^2$ Canis maj. $4^m.6$. AR. | | Dekl. − | | 51 Aurigae. $6^m.1$. AR. | | Dekl. + | | $\gamma$ Geminorum. $2^m.0$. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $6^h 30^m$ | | 79° 39′ | | $6^h 31^m$ | | 22° 53′ | | $6^h 32^m$ | | 39° 28′ | | $6^h 32^m$ | | 16° 28′ | |
| Jan. 0 | 69.16 | 22 | 52.8 | 30 | 20.41 | 6 | 32.5 | 25 | 30.40 | 12 | 18.0 | 11 | 34.87 | 10 | 38.7 | 4 |
| 10 | 69.38 | 3 | 55.8 | 30 | 20.47 | 1 | 35.0 | 23 | 30.52 | 5 | 19.1 | 11 | 34.97 | 5 | 38.3 | 2 |
| 20 | 69.35 | 27 | 58.8 | 29 | 20.48 | 4 | 37.3 | 21 | 30.57 | 0 | 20.2 | 11 | 35.02 | 0 | 38.1 | 2 |
| 30 | 69.08 | 50 | 61.7 | 25 | 20.44 | 8 | 39.4 | 18 | 30.57 | 6 | 21.3 | 11 | 35.02 | 5 | 37.9 | 0 |
| Febr. 9 | 68.58 | 70 | 64.2 | 23 | 20.36 | 12 | 41.2 | 15 | 30.51 | 12 | 22.4 | 10 | 34.97 | 9 | 37.9 | 0 |
| 19 | 67.88 | 87 | 66.5 | 18 | 20.24 | 16 | 42.7 | 11 | 30.39 | 16 | 23.4 | 8 | 34.88 | 12 | 37.9 | 1 |
| März 1 | 67.01 | 99 | 68.3 | 12 | 20.08 | 19 | 43.8 | 7 | 30.23 | 19 | 24.2 | 7 | 34.76 | 15 | 38.0 | 1 |
| 11 | 66.02 | 107 | 69.5 | 8 | 19.89 | 19 | 44.5 | 4 | 30.04 | 21 | 24.9 | 4 | 34.61 | 17 | 38.1 | 1 |
| 21 | 64.95 | 108 | 70.3 | 1 | 19.70 | 21 | 44.9 | 0 | 29.83 | 21 | 25.3 | 2 | 34.44 | 17 | 38.2 | 2 |
| 31 | 63.87 | 106 | 70.4 | 4 | 19.49 | 19 | 44.9 | 4 | 29.62 | 21 | 25.5 | 1 | 34.27 | 16 | 38.4 | 1 |
| April 10 | 62.81 | 99 | 70.0 | 9 | 19.30 | 18 | 44.5 | 7 | 29.41 | 18 | 25.4 | 2 | 34.11 | 15 | 38.5 | 2 |
| 20 | 61.82 | 89 | 69.1 | 15 | 19.12 | 15 | 43.8 | 11 | 29.23 | 16 | 25.2 | 5 | 33.96 | 13 | 38.7 | 1 |
| 30 | 60.93 | 73 | 67.6 | 18 | 18.97 | 13 | 42.7 | 13 | 29.07 | 12 | 24.7 | 6 | 33.83 | 9 | 38.8 | 2 |
| Mai 10 | 60.20 | 55 | 65.8 | 22 | 18.84 | 9 | 41.4 | 17 | 28.95 | 7 | 24.1 | 8 | 33.74 | 5 | 39.0 | 2 |
| 20 | 59.65 | 35 | 63.6 | 26 | 18.75 | 5 | 39.7 | 19 | 28.88 | 3 | 23.3 | 9 | 33.69 | 2 | 39.2 | 3 |
| 30 | 59.30 | 15 | 61.0 | 26 | 18.70 | 1 | 37.8 | 22 | 28.85 | 3 | 22.4 | 9 | 33.67 | 3 | 39.5 | 3 |
| Juni 9 | 59.15 | 6 | 58.4 | 28 | 18.69 | 3 | 35.6 | 23 | 28.88 | 8 | 21.5 | 10 | 33.70 | 7 | 39.8 | 3 |
| 19 | 59.21 | 28 | 55.6 | 29 | 18.72 | 8 | 33.3 | 24 | 28.96 | 13 | 20.5 | 10 | 33.77 | 11 | 40.1 | 4 |
| 29 | 59.49 | 55 | 52.7 | 32 | 18.80 | 12 | 30.9 | 27 | 29.09 | 19 | 19.5 | 10 | 33.88 | 16 | 40.5 | 4 |
| Juli 9 | [29]60.04 | 68 | 49.5 | 27 | [29]18.92 | 15 | 28.2 | 24 | [29]29.28 | 22 | 18.5 | 9 | [29]34.04 | 18 | 40.9 | 4 |
| 19 | 60.72 | 86 | 46.8 | 25 | 19.07 | 18 | 25.8 | 23 | 29.50 | 26 | 17.6 | 8 | 34.22 | 21 | 41.3 | 4 |
| 29 | 61.58 | 103 | 44.3 | 23 | 19.25 | 21 | 23.5 | 21 | 29.76 | 29 | 16.8 | 8 | 34.43 | 24 | 41.7 | 4 |
| Aug. 8 | 62.61 | 117 | 42.0 | 20 | 19.46 | 24 | 21.4 | 18 | 30.05 | 32 | 16.0 | 7 | 34.67 | 26 | 42.1 | 3 |
| 18 | 63.78 | 129 | 40.0 | 17 | 19.70 | 26 | 19.6 | 16 | 30.37 | 34 | 15.3 | 6 | 34.93 | 28 | 42.4 | 2 |
| 28 | 65.07 | 138 | 38.3 | 13 | 19.96 | 28 | 18.0 | 11 | 30.71 | 36 | 14.7 | 5 | 35.21 | 29 | 42.6 | 1 |
| Sept. 7 | 66.45 | 146 | 37.0 | 9 | 20.24 | 29 | 16.9 | 7 | 31.07 | 38 | 14.2 | 5 | 35.50 | 30 | 42.7 | 0 |
| 17 | 67.91 | 150 | 36.1 | 6 | 20.53 | 31 | 16.2 | 2 | 31.45 | 39 | 13.7 | 4 | 35.80 | 32 | 42.7 | 1 |
| 27 | 69.41 | 152 | 35.5 | 1 | 20.84 | 31 | 16.0 | 3 | 31.84 | 39 | 13.3 | 2 | 36.12 | 32 | 42.6 | 3 |
| Okt. 7 | 70.93 | 152 | 35.4 | 4 | 21.15 | 30 | 16.3 | 8 | 32.23 | 39 | 13.1 | 1 | 36.44 | 32 | 42.3 | 4 |
| 17 | 72.45 | 149 | 35.8 | 8 | 21.45 | 30 | 17.1 | 12 | 32.62 | 39 | 13.0 | 0 | 36.76 | 31 | 41.9 | 5 |
| 27 | 73.94 | 141 | 36.6 | 12 | 21.75 | 29 | 18.3 | 17 | 33.01 | 38 | 13.0 | 1 | 37.07 | 31 | 41.4 | 6 |
| Nov. 6 | 75.35 | 131 | 37.8 | 16 | 22.04 | 27 | 20.0 | 20 | 33.39 | 36 | 13.1 | 3 | 37.38 | 30 | 40.8 | 7 |
| 16 | 76.66 | 119 | 39.4 | 21 | 22.31 | 25 | 22.0 | 23 | 33.75 | 34 | 13.4 | 4 | 37.68 | 27 | 40.1 | 7 |
| 26 | 77.85 | 102 | 41.5 | 24 | 22.56 | 22 | 24.3 | 26 | 34.09 | 30 | 13.8 | 6 | 37.95 | 25 | 39.4 | 7 |
| Dez. 6 | 78.87 | 82 | 43.9 | 26 | 22.78 | 18 | 26.9 | 27 | 34.39 | 26 | 14.4 | 8 | 38.20 | 22 | 38.7 | 6 |
| 16 | 79.69 | 59 | 46.5 | 29 | 22.96 | 14 | 29.6 | 26 | 34.65 | 21 | 15.2 | 8 | 38.42 | 17 | 38.1 | 5 |
| 26 | 80.28 | 36 | 49.4 | 30 | 23.10 | 9 | 32.2 | 26 | 34.86 | 16 | 16.0 | 10 | 38.59 | 13 | 37.6 | 5 |
| 36 | 80.64 | | 52.4 | | 23.19 | | 34.8 | | 35.02 | | 17.0 | | 38.72 | | 37.1 | |
| Mittl. Ort | 63.71 | | 46.3 | | 19.56 | | 37.5 | | 29.57 | | 12.5 | | 34.26 | | 33.5 | |
| | 248) | | | | 249) | | | | 250) | | | | 251) | | | |

| 1911 | ν Argus. 3ᵐ.1. | | | | S Monocerot. (4ᵐ.4). | | | | ε Geminorum. 3ᵐ.1. | | | | ξ Geminorum. 3ᵐ.4. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. − | | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. + | |
| | $6^h\,35^m$ | | 43° 6′ | | $6^h\,36^m$ | | 9° 58′ | | $6^h\,38^m$ | | 25° 13′ | | $6^h\,40^m$ | | 12° 59′ | |
| Jan. 0 | 3.64 | 3 | 57.8 | 32 | 5.24 | 10 | 48.7 | 8 | 28.11 | 12 | 17.3 | 1 | 18.30 | 11 | 37.2 | 6 |
| 10 | 3.67 | 3 | 61.0 | 31 | 5.34 | 5 | 47.9 | 6 | 28.23 | 6 | 17.4 | 3 | 18.41 | 5 | 36.6 | 5 |
| 20 | 3.64 | 10 | 64.1 | 27 | 5.39 | 0 | 47.3 | 5 | 28.29 | 0 | 17.7 | 4 | 18.46 | 0 | 36.1 | 3 |
| 30 | 3.54 | 14 | 66.8 | 25 | 5.39 | 5 | 46.8 | 4 | 28.29 | 5 | 18.1 | 4 | 18.46 | 4 | 35.8 | 3 |
| Febr. 9 | 3.40 | 20 | 69.3 | 20 | 5.34 | 9 | 46.4 | 3 | 28.24 | 9 | 18.5 | 4 | 18.42 | 8 | 35.5 | 1 |
| 19 | 3.20 | 23 | 71.3 | 16 | 5.25 | 12 | 46.1 | 1 | 28.15 | 12 | 18.9 | 4 | 18.34 | 12 | 35.4 | 0 |
| März 1 | 2.97 | 25 | 72.9 | 11 | 5.13 | 15 | 46.0 | 1 | 28.03 | 16 | 19.3 | 4 | 18.22 | 15 | 35.4 | 0 |
| 11 | 2.72 | 28 | 74.0 | 6 | 4.98 | 16 | 45.9 | 1 | 27.87 | 18 | 19.7 | 2 | 18.07 | 16 | 35.4 | 1 |
| 21 | 2.44 | 28 | 74.6 | 2 | 4.82 | 17 | 46.0 | 1 | 27.69 | 18 | 19.9 | 2 | 17.91 | 17 | 35.5 | 2 |
| 31 | 2.16 | 28 | 74.8 | 4 | 4.65 | 16 | 46.1 | 2 | 27.51 | 17 | 20.1 | 1 | 17.74 | 16 | 35.7 | 1 |
| April 10 | 1.88 | 26 | 74.4 | 7 | 4.49 | 15 | 46.3 | 3 | 27.34 | 16 | 20.2 | 0 | 17.58 | 15 | 35.8 | 2 |
| 20 | 1.62 | 23 | 73.7 | 14 | 4.34 | 12 | 46.6 | 3 | 27.18 | 13 | 20.2 | 0 | 17.43 | 13 | 36.0 | 3 |
| 30 | 1.39 | 20 | 72.3 | 17 | 4.22 | 9 | 46.9 | 4 | 27.05 | 10 | 20.2 | 1 | 17.30 | 9 | 36.3 | 3 |
| Mai 10 | 1.19 | 16 | 70.6 | 21 | 4.13 | 5 | 47.3 | 5 | 26.95 | 6 | 20.1 | 2 | 17.21 | 6 | 36.6 | 3 |
| 20 | 1.03 | 12 | 68.5 | 24 | 4.08 | 2 | 47.8 | 5 | 26.89 | 2 | 19.9 | 2 | 17.15 | 2 | 36.9 | 4 |
| 30 | 0.91 | 6 | 66.1 | 27 | 4.06 | 2 | 48.3 | 7 | 26.87 | 2 | 19.7 | 2 | 17.13 | 2 | 37.3 | 5 |
| Juni 9 | 0.85 | 2 | 63.4 | 29 | 4.08 | 6 | 49.0 | 7 | 26.89 | 7 | 19.5 | 2 | 17.15 | 6 | 37.8 | 5 |
| 19 | 0.83 | 4 | 60.5 | 30 | 4.14 | 10 | 49.7 | 7 | 26.96 | 11 | 19.3 | 1 | 17.21 | 9 | 38.3 | 6 |
| 29 | 0.87 | 9 | 57.5 | 35 | 4.24 | 15 | 50.4 | 8 | 27.07 | 16 | 19.2 | 2 | 17.30 | 15 | 38.9 | 6 |
| Juli 9 | [30] 0.96 | 14 | 54.0 | 30 | [30] 4.39 | 17 | 51.2 | 8 | [1] 27.23 | 19 | 19.0 | 1 | [1] 17.45 | 17 | 39.5 | 6 |
| 19 | 1.10 | 18 | 51.0 | 30 | 4.56 | 20 | 52.0 | 7 | 27.42 | 22 | 18.9 | 1 | 17.62 | 20 | 40.1 | 5 |
| 29 | 1.28 | 22 | 48.0 | 27 | 4.76 | 22 | 52.7 | 7 | 27.64 | 25 | 18.8 | 1 | 17.82 | 22 | 40.6 | 5 |
| Aug. 8 | 1.50 | 27 | 45.3 | 24 | 4.98 | 25 | 53.4 | 6 | 27.89 | 27 | 18.7 | 1 | 18.04 | 25 | 41.1 | 4 |
| 18 | 1.77 | 29 | 42.9 | 19 | 5.23 | 27 | 54.0 | 4 | 28.16 | 29 | 18.6 | 1 | 18.29 | 27 | 41.5 | 3 |
| 28 | 2.06 | 32 | 41.0 | 16 | 5.50 | 28 | 54.4 | 3 | 28.45 | 31 | 18.5 | 2 | 18.56 | 28 | 41.8 | 2 |
| Sept. 7 | 2.38 | 34 | 39.4 | 9 | 5.78 | 29 | 54.7 | 1 | 28.76 | 32 | 18.3 | 2 | 18.84 | 30 | 42.0 | 0 |
| 17 | 2.72 | 35 | 38.5 | 4 | 6.07 | 30 | 54.8 | 1 | 29.08 | 33 | 18.1 | 3 | 19.14 | 30 | 42.0 | 2 |
| 27 | 3.07 | 35 | 38.1 | 2 | 6.37 | 31 | 54.7 | 3 | 29.41 | 34 | 17.8 | 3 | 19.44 | 32 | 41.8 | 3 |
| Okt. 7 | 3.42 | 36 | 38.3 | 8 | 6.68 | 31 | 54.4 | 5 | 29.75 | 34 | 17.5 | 4 | 19.76 | 31 | 41.5 | 5 |
| 17 | 3.78 | 35 | 39.1 | 14 | 6.99 | 31 | 53.9 | 7 | 30.09 | 34 | 17.1 | 4 | 20.07 | 32 | 41.0 | 6 |
| 27 | 4.13 | 34 | 40.5 | 20 | 7.30 | 30 | 53.2 | 8 | 30.43 | 33 | 16.7 | 3 | 20.39 | 30 | 40.4 | 8 |
| Nov. 6 | 4.47 | 30 | 42.5 | 24 | 7.60 | 29 | 52.4 | 10 | 30.76 | 32 | 16.4 | 4 | 20.69 | 30 | 39.6 | 8 |
| 16 | 4.77 | 28 | 44.9 | 29 | 7.89 | 27 | 51.4 | 10 | 31.08 | 30 | 16.0 | 3 | 20.99 | 27 | 38.8 | 9 |
| 26 | 5.05 | 23 | 47.8 | 31 | 8.16 | 24 | 50.4 | 10 | 31.38 | 27 | 15.7 | 2 | 21.26 | 25 | 37.9 | 9 |
| Dez. 6 | 5.28 | 18 | 50.9 | 33 | 8.40 | 21 | 49.4 | 10 | 31.65 | 23 | 15.5 | 1 | 21.51 | 22 | 37.0 | 9 |
| 16 | 5.46 | 12 | 54.2 | 34 | 8.61 | 17 | 48.4 | 9 | 31.88 | 19 | 15.4 | 1 | 21.73 | 18 | 36.1 | 8 |
| 26 | 5.58 | 6 | 57.6 | 33 | 8.78 | 12 | 47.5 | 9 | 32.07 | 14 | 15.3 | 1 | 21.91 | 13 | 35.3 | 7 |
| 36 | 5.64 | | 60.9 | | 8.90 | | 46.6 | | 32.21 | | 15.4 | | 22.04 | | 34.6 | |
| Mittl. Ort | 2.26 | | 63.3 | | 4.63 | | 43.5 | | 27.45 | | 12.1 | | 17.69 | | 32.1 | |
| | 252) | | | | 253) | | | | 254) | | | | 256) | | | |

| 1911 | α Canis maj.*). 1m. | | | | 18 Monocerot. 4m.7. | | | | ϑ Geminorum. 3m.4. | | | | α Pictoris. 3m.2. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. − | | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. − | |
| | 6h 41m | | 16° 35′ | | 6h 43m | | 2° 30′ | | 6h 46m | | 34° 4′ | | 6h 47m | | 61° 50′ | |
| Jan. 0 | 14.23s | 7 | 31.5″ | 23 | 13.87s | 10 | 41.8″ | 12 | 56.22s | 14 | 14.6″ | 7 | 19.31s | 1 | 37.1″ | 36 |
| 10 | 14.30 | 2 | 33.8 | 22 | 13.97 | 5 | 40.6 | 11 | 56.36 | 7 | 15.3 | 8 | 19.30 | 10 | 40.7 | 34 |
| 20 | 14.32 | 2 | 36.0 | 19 | 14.02 | 0 | 39.5 | 9 | 56.43 | 1 | 16.1 | 9 | 19.20 | 20 | 44.1 | 32 |
| 30 | 14.30 | 7 | 37.9 | 16 | 14.02 | 4 | 38.6 | 8 | 56.44 | 4 | 17.0 | 8 | 19.00 | 27 | 47.3 | 28 |
| Febr. 9 | 14.23 | 12 | 39.5 | 13 | 13.98 | 9 | 37.8 | 6 | 56.40 | 9 | 17.8 | 8 | 18.73 | 34 | 50.1 | 24 |
| 19 | 14.11 | 14 | 40.8 | 10 | 13.89 | 12 | 37.2 | 4 | 56.31 | 13 | 18.6 | 7 | 18.39 | 40 | 52.5 | 20 |
| März 1 | 13.97 | 17 | 41.8 | 7 | 13.77 | 14 | 36.8 | 2 | 56.18 | 17 | 19.3 | 6 | 17.99 | 45 | 54.5 | 14 |
| 11 | 13.80 | 18 | 42.5 | 4 | 13.63 | 16 | 36.6 | 1 | 56.01 | 19 | 19.9 | 5 | 17.54 | 46 | 55.9 | 9 |
| 21 | 13.62 | 19 | 42.9 | 0 | 13.47 | 17 | 36.5 | 1 | 55.82 | 19 | 20.4 | 3 | 17.08 | 49 | 56.8 | 4 |
| 31 | 13.43 | 19 | 42.9 | 3 | 13.30 | 16 | 36.6 | 2 | 55.63 | 20 | 20.7 | 1 | 16.59 | 47 | 57.2 | 1 |
| April 10 | 13.24 | 16 | 42.6 | 6 | 13.14 | 15 | 36.8 | 4 | 55.43 | 18 | 20.8 | 1 | 16.12 | 46 | 57.1 | 7 |
| 20 | 13.08 | 14 | 42.0 | 9 | 12.99 | 13 | 37.2 | 5 | 55.25 | 15 | 20.7 | 2 | 15.66 | 43 | 56.4 | 12 |
| 30 | 12.94 | 12 | 41.1 | 12 | 12.86 | 10 | 37.7 | 6 | 55.10 | 11 | 20.5 | 4 | 15.23 | 38 | 55.2 | 16 |
| Mai 10 | 12.82 | 9 | 39.9 | 14 | 12.76 | 6 | 38.3 | 8 | 54.99 | 8 | 20.1 | 5 | 14.85 | 34 | 53.6 | 21 |
| 20 | 12.73 | 4 | 38.5 | 16 | 12.70 | 3 | 39.1 | 8 | 54.91 | 3 | 19.6 | 6 | 14.51 | 27 | 51.5 | 25 |
| 30 | 12.69 | 1 | 36.9 | 18 | 12.67 | 1 | 39.9 | 10 | 54.88 | 2 | 19.0 | 6 | 14.24 | 20 | 49.0 | 28 |
| Juni 9 | 12.68 | 4 | 35.1 | 20 | 12.68 | 5 | 40.9 | 11 | 54.90 | 6 | 18.4 | 7 | 14.04 | 12 | 46.2 | 31 |
| 19 | 12.72 | 7 | 33.1 | 21 | 12.73 | 9 | 42.0 | 12 | 54.96 | 10 | 17.7 | 7 | 13.92 | 6 | 43.1 | 33 |
| 29 | 12.79 | 12 | 31.0 | 23 | 12.82 | 13 | 43.2 | 12 | 55.06 | 17 | 17.0 | 8 | 13.86 | 3 | 39.8 | 36 |
| Juli 9 | [2] 12.91 | 15 | 28.7 | 20 | [2] 12.95 | 16 | 44.4 | 12 | [3] 55.23 | 19 | 16.2 | 7 | [3] 13.89 | 11 | 36.2 | 34 |
| 19 | 13.06 | 18 | 26.7 | 20 | 13.11 | 19 | 45.6 | 11 | 55.42 | 23 | 15.5 | 6 | 14.00 | 18 | 32.8 | 32 |
| 29 | 13.24 | 21 | 24.7 | 18 | 13.30 | 21 | 46.7 | 10 | 55.65 | 26 | 14.9 | 6 | 14.18 | 26 | 29.6 | 30 |
| Aug. 8 | 13.45 | 23 | 22.9 | 16 | 13.51 | 23 | 47.7 | 9 | 55.91 | 29 | 14.3 | 6 | 14.44 | 31 | 26.6 | 28 |
| 18 | 13.68 | 25 | 21.3 | 13 | 13.74 | 26 | 48.6 | 7 | 56.20 | 31 | 13.7 | 5 | 14.75 | 38 | 23.8 | 23 |
| 28 | 13.93 | 27 | 20.0 | 9 | 14.00 | 27 | 49.3 | 5 | 56.51 | 33 | 13.2 | 5 | 15.13 | 43 | 21.5 | 18 |
| Sept. 7 | 14.20 | 28 | 19.1 | 5 | 14.27 | 28 | 49.8 | 2 | 56.84 | 35 | 12.7 | 5 | 15.56 | 46 | 19.7 | 12 |
| 17 | 14.48 | 30 | 18.6 | 1 | 14.55 | 30 | 50.0 | 1 | 57.19 | 36 | 12.2 | 4 | 16.02 | 49 | 18.5 | 7 |
| 27 | 14.78 | 30 | 18.5 | 3 | 14.85 | 30 | 49.9 | 3 | 57.55 | 36 | 11.8 | 4 | 16.51 | 51 | 17.8 | 0 |
| Okt. 7 | 15.08 | 30 | 18.8 | 8 | 15.15 | 30 | 49.6 | 6 | 57.91 | 37 | 11.4 | 4 | 17.02 | 50 | 17.8 | 6 |
| 17 | 15.38 | 30 | 19.6 | 12 | 15.45 | 30 | 49.0 | 8 | 58.28 | 37 | 11.0 | 3 | 17.52 | 50 | 18.4 | 14 |
| 27 | 15.68 | 28 | 20.8 | 16 | 15.75 | 30 | 48.2 | 11 | 58.65 | 37 | 10.7 | 2 | 18.02 | 47 | 19.8 | 19 |
| Nov. 6 | 15.96 | 28 | 22.4 | 19 | 16.05 | 28 | 47.1 | 12 | 59.02 | 35 | 10.5 | 0 | 18.49 | 42 | 21.7 | 25 |
| 16 | 16.24 | 25 | 24.3 | 22 | 16.33 | 27 | 45.9 | 14 | 59.37 | 33 | 10.5 | 0 | 18.91 | 36 | 24.2 | 29 |
| 26 | 16.49 | 22 | 26.5 | 23 | 16.60 | 24 | 44.5 | 14 | 59.70 | 30 | 10.5 | 2 | 19.27 | 30 | 27.1 | 33 |
| Dez. 6 | 16.71 | 19 | 28.8 | 25 | 16.84 | 21 | 43.1 | 15 | 60.00 | 26 | 10.7 | 3 | 19.57 | 21 | 30.4 | 35 |
| 16 | 16.90 | 14 | 31.3 | 25 | 17.05 | 17 | 41.6 | 14 | 60.26 | 21 | 11.0 | 5 | 19.78 | 13 | 33.9 | 37 |
| 26 | 17.04 | 10 | 33.8 | 24 | 17.22 | 12 | 40.2 | 13 | 60.47 | 16 | 11.5 | 6 | 19.91 | 4 | 37.6 | 37 |
| 36 | 17.14 | | 36.2 | | 17.34 | | 38.9 | | 60.63 | | 12.1 | | 19.95 | | 41.3 | |
| Mittl. Ort | 13.67 | | 36.5 | | 13.25 | | 36.6 | | 55.47 | | 9.6 | | 16.73 | | 44.1 | |
| | 257) | | | | 258) | | | | 261) | | | | 262) | | | |

*) Ort des Hauptsterns; die jährliche Parallaxe ist bereits angebracht.

| 1911 | 15 Lyncis. $4^m.6$. | | | | ϑ Canis maj. $4^m.1$. | | | | ε Canis maj. $1^m.5$. | | | | ζ Geminor. $(3^m.8)$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. − | | AR. | | Dekl. − | | AR. | | Dekl. + | |
| | $6^h\ 49^m$ | | 58° 32′ | | $6^h\ 50^m$ | | 11° 55′ | | $6^h\ 55^m$ | | 28° 50′ | | $6^h\ 58^m$ | | 20° 42′ | |
| Jan. 0 | 35.92 | 18 | 30.6 | 21 | 4.00 | 9 | 30.0 | 21 | 8.58 | 7 | 55.1 | 29 | 50.52 | 13 | 10.6 | 1 |
| 10 | 36.10 | 8 | 32.7 | 22 | 4.09 | 4 | 32.1 | 19 | 8.65 | 3 | 58.0 | 27 | 50.65 | 8 | 10.5 | 1 |
| 20 | 36.18 | 0 | 34.9 | 21 | 4.13 | 0 | 34.0 | 17 | 8.68 | 3 | 60.7 | 25 | 50.73 | 3 | 10.4 | 1 |
| 30 | 36.18 | 9 | 37.0 | 20 | 4.13 | 5 | 35.7 | 14 | 8.65 | 7 | 63.2 | 22 | 50.76 | 3 | 10.5 | 2 |
| Febr. 9 | 36.09 | 17 | 39.0 | 18 | 4.08 | 9 | 37.1 | 12 | 8.58 | 12 | 65.4 | 18 | 50.73 | 7 | 10.7 | 3 |
| 19 | 35.92 | 24 | 40.8 | 15 | 3.99 | 13 | 38.3 | 9 | 8.46 | 16 | 67.2 | 15 | 50.66 | 11 | 11.0 | 2 |
| März 1 | 35.68 | 29 | 42.3 | 12 | 3.86 | 16 | 39.2 | 6 | 8.30 | 19 | 68.7 | 10 | 50.55 | 15 | 11.2 | 3 |
| 11 | 35.39 | 32 | 43.5 | 8 | 3.70 | 17 | 39.8 | 4 | 8.11 | 20 | 69.7 | 7 | 50.40 | 16 | 11.5 | 3 |
| 21 | 35.07 | 33 | 44.3 | 4 | 3.53 | 18 | 40.2 | 0 | 7.91 | 22 | 70.4 | 2 | 50.24 | 17 | 11.8 | 3 |
| 31 | 34.74 | 33 | 44.7 | 0 | 3.35 | 17 | 40.2 | 2 | 7.69 | 21 | 70.6 | 2 | 50.07 | 17 | 12.1 | 2 |
| April 10 | 34.41 | 31 | 44.7 | 4 | 3.18 | 16 | 40.0 | 5 | 7.48 | 20 | 70.4 | 5 | 49.90 | 15 | 12.3 | 1 |
| 20 | 34.10 | 27 | 44.3 | 8 | 3.02 | 15 | 39.5 | 7 | 7.28 | 18 | 69.9 | 10 | 49.75 | 14 | 12.4 | 1 |
| 30 | 33.83 | 22 | 43.5 | 11 | 2.87 | 11 | 38.8 | 10 | 7.10 | 15 | 68.9 | 13 | 49.61 | 11 | 12.5 | 1 |
| Mai 10 | 33.61 | 16 | 42.4 | 14 | 2.76 | 9 | 37.8 | 13 | 6.95 | 12 | 67.6 | 16 | 49.50 | 7 | 12.6 | 1 |
| 20 | 33.45 | 10 | 41.0 | 17 | 2.67 | 4 | 36.5 | 14 | 6.83 | 9 | 66.0 | 20 | 49.43 | 3 | 12.7 | 0 |
| 30 | 33.35 | 2 | 39.3 | 19 | 2.63 | 1 | 35.1 | 16 | 6.74 | 4 | 64.0 | 22 | 49.40 | 0 | 12.7 | 1 |
| Juni 9 | 33.33 | 5 | 37.4 | 19 | 2.62 | 3 | 33.5 | 18 | 6.70 | 0 | 61.8 | 23 | 49.40 | 5 | 12.8 | 0 |
| 19 | 33.38 | 13 | 35.5 | 20 | 2.65 | 6 | 31.7 | 18 | 6.70 | 4 | 59.5 | 26 | 49.45 | 8 | 12.8 | 1 |
| 29 | 33.51 | 22 | 33.5 | 22 | 2.71 | 11 | 29.9 | 21 | 6.74 | 9 | 56.9 | 28 | 49.53 | 14 | 12.9 | 0 |
| Juli 9 | 33.73 | 27 | 31.3 | 20 | 2.82 | 15 | 27.8 | 19 | 6.83 | 12 | 54.1 | 26 | 49.67 | 16 | 12.9 | 1 |
| 19 | 34.00 | 32 | 29.3 | 19 | 2.97 | 17 | 25.9 | 18 | 6.95 | 16 | 51.5 | 25 | 49.83 | 20 | 13.0 | 0 |
| 29 | 34.32 | 38 | 27.4 | 17 | 3.14 | 20 | 24.1 | 17 | 7.11 | 19 | 49.0 | 24 | 50.03 | 22 | 13.0 | 0 |
| Aug. 8 | 34.70 | 43 | 25.7 | 16 | 3.34 | 22 | 22.4 | 15 | 7.30 | 22 | 46.6 | 21 | 50.25 | 25 | 13.0 | 0 |
| 18 | 35.13 | 46 | 24.1 | 14 | 3.56 | 24 | 20.9 | 11 | 7.52 | 25 | 44.5 | 17 | 50.50 | 26 | 13.0 | 1 |
| 28 | 35.59 | 50 | 22.7 | 12 | 3.80 | 27 | 19.8 | 9 | 7.77 | 28 | 42.8 | 13 | 50.76 | 29 | 12.9 | 2 |
| Sept. 7 | 36.09 | 52 | 21.5 | 10 | 4.07 | 27 | 18.9 | 6 | 8.05 | 29 | 41.5 | 9 | 51.05 | 30 | 12.7 | 2 |
| 17 | 36.61 | 55 | 20.5 | 7 | 4.34 | 29 | 18.3 | 1 | 8.34 | 30 | 40.6 | 4 | 51.35 | 32 | 12.5 | 4 |
| 27 | 37.16 | 56 | 19.8 | 4 | 4.63 | 30 | 18.2 | 2 | 8.64 | 32 | 40.2 | 1 | 51.67 | 32 | 12.1 | 5 |
| Okt. 7 | 37.72 | 56 | 19.4 | 2 | 4.93 | 30 | 18.4 | 7 | 8.96 | 32 | 40.3 | 7 | 51.99 | 33 | 11.6 | 5 |
| 17 | 38.28 | 57 | 19.2 | 2 | 5.23 | 30 | 19.1 | 11 | 9.28 | 32 | 41.0 | 12 | 52.32 | 34 | 11.1 | 6 |
| 27 | 38.85 | 54 | 19.4 | 4 | 5.53 | 30 | 20.2 | 14 | 9.60 | 31 | 42.2 | 17 | 52.66 | 33 | 10.5 | 7 |
| Nov. 6 | 39.39 | 53 | 19.8 | 8 | 5.83 | 28 | 21.6 | 17 | 9.91 | 29 | 43.9 | 21 | 52.99 | 31 | 9.8 | 7 |
| 16 | 39.92 | 48 | 20.6 | 11 | 6.11 | 26 | 23.3 | 20 | 10.20 | 28 | 46.0 | 24 | 53.30 | 30 | 9.1 | 6 |
| 26 | 40.40 | 44 | 21.7 | 14 | 6.37 | 24 | 25.3 | 21 | 10.48 | 24 | 48.4 | 28 | 53.60 | 28 | 8.5 | 6 |
| Dez. 6 | 40.84 | 37 | 23.1 | 16 | 6.61 | 20 | 27.4 | 22 | 10.72 | 20 | 51.2 | 29 | 53.88 | 25 | 7.9 | 5 |
| 16 | 41.21 | 31 | 24.7 | 18 | 6.81 | 17 | 29.6 | 22 | 10.92 | 16 | 54.1 | 30 | 54.13 | 20 | 7.4 | 4 |
| 26 | 41.52 | 22 | 26.5 | 21 | 6.98 | 11 | 31.8 | 22 | 11.08 | 10 | 57.1 | 29 | 54.33 | 16 | 7.0 | 3 |
| 36 | 41.74 | | 28.6 | | 7.09 | | 34.0 | | 11.18 | | 60.0 | | 54.49 | | 6.7 | |
| Mittl. Ort | 34.42 | | 25.7 | | 3.30 | | 35.7 | | 7.65 | | 61.6 | | 49.88 | | 5.8 | |
| | 265) | | | | 266) | | | | 268) | | | | 269) | | | |

| 1911 | γ Canis maj. 4m.0. AR. | | γ Canis maj. Dekl. − | | δ Canis maj. 1m.9. AR. | | δ Canis maj. Dekl. − | | 63 Aurigae. 5m.0. AR. | | 63 Aurigae. Dekl. + | | λ Geminorum. 3m.6. AR. | | λ Geminorum. Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6h 59m | | 15° 29′ | | 7h 4m | | 26° 14′ | | 7h 5m | | 39° 27′ | | 7h 12m | | 16° 42′ | |
| Jan. 0 | 44.67 | 9 | 58.3 | 23 | 47.19 | 9 | 58.1 | 28 | 33.02 | 16 | 63.9 | 10 | 59.37 | 14 | 10.6 | 5 |
| 10 | 44.76 | 5 | 60.6 | 21 | 47.28 | 4 | 60.9 | 27 | 33.18 | 10 | 64.9 | 11 | 59.51 | 9 | 10.1 | 3 |
| 20 | 44.81 | 0 | 62.7 | 19 | 47.32 | 1 | 63.6 | 24 | 33.28 | 3 | 66.0 | 11 | 59.60 | 4 | 9.8 | 2 |
| 30 | 44.81 | 5 | 64.6 | 17 | 47.31 | 6 | 66.0 | 21 | 33.31 | 3 | 67.1 | 12 | 59.64 | 1 | 9.6 | 1 |
| Febr. 9 | 44.76 | 9 | 66.3 | 14 | 47.25 | 11 | 68.1 | 18 | 33.28 | 8 | 68.3 | 11 | 59.63 | 6 | 9.5 | 1 |
| 19 | 44.67 | 12 | 67.7 | 11 | 47.14 | 14 | 69.9 | 15 | 33.20 | 13 | 69.4 | 11 | 59.57 | 10 | 9.6 | 1 |
| März 1 | 44.55 | 16 | 68.8 | 7 | 47.00 | 18 | 71.4 | 11 | 33.07 | 17 | 70.5 | 8 | 59.47 | 13 | 9.7 | 2 |
| 11 | 44.39 | 17 | 69.5 | 5 | 46.82 | 19 | 72.5 | 7 | 32.90 | 20 | 71.3 | 7 | 59.34 | 16 | 9.9 | 3 |
| 21 | 44.22 | 18 | 70.0 | 1 | 46.63 | 21 | 73.2 | 3 | 32.70 | 21 | 72.0 | 4 | 59.18 | 16 | 10.2 | 2 |
| 31 | 44.04 | 18 | 70.1 | 2 | 46.42 | 20 | 73.5 | 1 | 32.49 | 21 | 72.4 | 2 | 59.02 | 16 | 10.4 | 2 |
| April 10 | 43.86 | 18 | 69.9 | 4 | 46.22 | 19 | 73.4 | 5 | 32.28 | 19 | 72.6 | 0 | 58.86 | 16 | 10.6 | 3 |
| 20 | 43.68 | 15 | 69.5 | 8 | 46.03 | 18 | 72.9 | 8 | 32.09 | 18 | 72.6 | 2 | 58.70 | 14 | 10.9 | 2 |
| 30 | 43.53 | 12 | 68.7 | 10 | 45.85 | 15 | 72.1 | 13 | 31.91 | 14 | 72.4 | 5 | 58.56 | 11 | 11.1 | 2 |
| Mai 10 | 43.41 | 9 | 67.7 | 13 | 45.70 | 12 | 70.8 | 15 | 31.77 | 10 | 71.9 | 6 | 58.45 | 8 | 11.3 | 2 |
| 20 | 43.32 | 6 | 66.4 | 15 | 45.58 | 8 | 69.3 | 18 | 31.67 | 5 | 71.3 | 8 | 58.37 | 4 | 11.5 | 3 |
| 30 | 43.26 | 2 | 64.9 | 18 | 45.50 | 5 | 67.5 | 20 | 31.62 | 1 | 70.5 | 9 | 58.33 | 1 | 11.8 | 2 |
| Juni 9 | 43.24 | 1 | 63.1 | 18 | 45.45 | 0 | 65.5 | 23 | 31.61 | 5 | 69.6 | 9 | 58.32 | 3 | 12.0 | 3 |
| 19 | 43.25 | 6 | 61.3 | 20 | 45.45 | 3 | 63.2 | 24 | 31.66 | 9 | 68.7 | 11 | 58.35 | 7 | 12.3 | 2 |
| 29 | 43.31 | 10 | 59.3 | 22 | 45.48 | 8 | 60.8 | 27 | 31.75 | 15 | 67.6 | 11 | 58.42 | 11 | 12.5 | 3 |
| Juli 9 | 43.41 | 13 | 57.1 | 20 | 45.56 | 12 | 58.1 | 24 | 31.90 | 18 | 66.5 | 11 | 58.53 | 16 | 12.8 | 2 |
| 19 | 43.54 | 16 | 55.1 | 20 | 45.68 | 15 | 55.7 | 24 | 32.08 | 22 | 65.4 | 10 | 58.69 | 17 | 13.0 | 2 |
| 29 | 43.70 | 19 | 53.1 | 18 | 45.83 | 18 | 53.3 | 23 | 32.30 | 26 | 64.4 | 10 | 58.86 | 20 | 13.2 | 2 |
| Aug. 8 | 43.89 | 21 | 51.3 | 16 | 46.01 | 22 | 51.0 | 20 | 32.56 | 29 | 63.4 | 10 | 59.06 | 23 | 13.4 | 1 |
| 18 | 44.10 | 24 | 49.7 | 13 | 46.23 | 24 | 49.0 | 17 | 32.85 | 31 | 62.4 | 9 | 59.29 | 25 | 13.5 | 0 |
| 28 | 44.34 | 25 | 48.4 | 10 | 46.47 | 26 | 47.3 | 13 | 33.16 | 34 | 61.5 | 9 | 59.54 | 27 | 13.5 | 2 |
| Sept. 7 | 44.59 | 28 | 47.4 | 7 | 46.73 | 28 | 46.0 | 9 | 33.50 | 36 | 60.6 | 8 | 59.81 | 29 | 13.3 | 2 |
| 17 | 44.87 | 29 | 46.7 | 2 | 47.01 | 30 | 45.1 | 4 | 33.86 | 37 | 59.8 | 7 | 60.10 | 30 | 13.1 | 4 |
| 27 | 45.16 | 30 | 46.5 | 3 | 47.31 | 31 | 44.7 | 1 | 34.23 | 39 | 59.1 | 6 | 60.40 | 32 | 12.7 | 5 |
| Okt. 7 | 45.46 | 30 | 46.8 | 6 | 47.62 | 32 | 44.8 | 7 | 34.62 | 40 | 58.5 | 5 | 60.72 | 32 | 12.2 | 7 |
| 17 | 45.76 | 31 | 47.4 | 11 | 47.94 | 31 | 45.5 | 11 | 35.02 | 40 | 58.0 | 4 | 61.04 | 33 | 11.5 | 8 |
| 27 | 46.07 | 30 | 48.5 | 15 | 48.25 | 31 | 46.6 | 16 | 35.42 | 40 | 57.6 | 2 | 61.37 | 32 | 10.7 | 8 |
| Nov. 6 | 46.37 | 29 | 50.0 | 18 | 48.56 | 30 | 48.2 | 21 | 35.82 | 38 | 57.4 | 1 | 61.69 | 32 | 9.9 | 9 |
| 16 | 46.66 | 27 | 51.8 | 21 | 48.86 | 28 | 50.3 | 24 | 36.20 | 36 | 57.3 | 2 | 62.01 | 30 | 9.0 | 9 |
| 26 | 46.93 | 24 | 53.9 | 23 | 49.14 | 25 | 52.7 | 26 | 36.56 | 34 | 57.5 | 3 | 62.31 | 28 | 8.1 | 9 |
| Dez. 6 | 47.17 | 21 | 56.2 | 23 | 49.39 | 21 | 55.3 | 28 | 36.90 | 30 | 57.8 | 5 | 62.59 | 25 | 7.2 | 8 |
| 16 | 47.38 | 17 | 58.5 | 24 | 49.60 | 17 | 58.1 | 29 | 37.20 | 24 | 58.3 | 7 | 62.84 | 21 | 6.4 | 7 |
| 26 | 47.55 | 12 | 60.9 | 24 | 49.77 | 11 | 61.0 | 29 | 37.44 | 20 | 59.0 | 9 | 63.05 | 17 | 5.7 | 6 |
| 36 | 47.67 | | 63.3 | | 49.88 | | 63.9 | | 37.64 | | 59.9 | | 63.22 | | 5.1 | |
| Mittl. Ort | 43.94 | | 64.4 | | 46.32 | | 65.0 | | 32.16 | | 59.7 | | 58.75 | | 5.8 | |
| | 271) | | | | 273) | | | | 274) | | | | 277) | | | |

| 1911 | π Argus. $2^m.5$. AR. | | Dekl. − | | δ Geminorum. $3^m.3$. AR. | | Dekl. + | | 19 Lyncis seq. $5^m.5$. AR. | | Dekl. + | | δ Volantis. $4^m.0$. AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $7^h\ 13^m$ | | 36° 55′ | | $7^h\ 14^m$ | | 22° 8′ | | $7^h\ 15^m$ | | 55° 26′ | | $7^h\ 16^m$ | | 67° 47′ | |
| Jan. 0 | 61.01 | 9 | 66.0 | 32 | 49.20 | 14 | 53.7 | 2 | 37.98 | 21 | 63.5 | 19 | 55.98 | 2 | 29.6 | 38 |
| 10 | 61.10 | 4 | 69.2 | 31 | 49.34 | 10 | 53.5 | 0 | 38.19 | 13 | 65.4 | 20 | 56.00 | 8 | 33.4 | 36 |
| 20 | 61.14 | 3 | 72.3 | 28 | 49.44 | 4 | 53.5 | 2 | 38.32 | 5 | 67.4 | 20 | 55.92 | 20 | 37.0 | 34 |
| 30 | 61.11 | 8 | 75.1 | 26 | 49.48 | 1 | 53.7 | 2 | 38.37 | 4 | 69.4 | 19 | 55.72 | 30 | 40.4 | 32 |
| Febr. 9 | 61.03 | 13 | 77.7 | 23 | 49.47 | 5 | 53.9 | 4 | 38.33 | 12 | 71.3 | 19 | 55.42 | 40 | 43.6 | 28 |
| 19 | 60.90 | 17 | 80.0 | 18 | 49.42 | 11 | 54.3 | 3 | 38.21 | 18 | 73.2 | 16 | 55.02 | 47 | 46.4 | 24 |
| März 1 | 60.73 | 21 | 81.8 | 14 | 49.31 | 13 | 54.6 | 4 | 38.03 | 24 | 74.8 | 14 | 54.55 | 53 | 48.8 | 19 |
| 11 | 60.52 | 23 | 83.2 | 10 | 49.18 | 16 | 55.0 | 3 | 37.79 | 27 | 76.2 | 10 | 54.02 | 58 | 50.7 | 15 |
| 21 | 60.29 | 24 | 84.2 | 5 | 49.02 | 17 | 55.3 | 4 | 37.52 | 30 | 77.2 | 7 | 53.44 | 61 | 52.2 | 8 |
| 31 | 60.05 | 24 | 84.7 | 1 | 48.85 | 16 | 55.7 | 3 | 37.22 | 30 | 77.9 | 3 | 52.83 | 61 | 53.0 | 4 |
| April 10 | 59.81 | 23 | 84.8 | 4 | 48.69 | 17 | 56.0 | 2 | 36.92 | 29 | 78.2 | 1 | 52.22 | 60 | 53.4 | 2 |
| 20 | 59.58 | 22 | 84.4 | 8 | 48.52 | 14 | 56.2 | 1 | 36.63 | 26 | 78.1 | 5 | 51.62 | 57 | 53.2 | 7 |
| 30 | 59.36 | 19 | 83.6 | 12 | 48.38 | 12 | 56.3 | 1 | 36.37 | 22 | 77.6 | 8 | 51.05 | 53 | 52.5 | 12 |
| Mai 10 | 59.17 | 16 | 82.4 | 16 | 48.26 | 8 | 56.4 | 0 | 36.15 | 17 | 76.8 | 12 | 50.52 | 48 | 51.3 | 17 |
| 20 | 59.01 | 12 | 80.8 | 20 | 48.18 | 5 | 56.4 | 0 | 35.98 | 11 | 75.6 | 14 | 50.04 | 42 | 49.6 | 21 |
| 30 | 58.89 | 8 | 78.8 | 23 | 48.13 | 0 | 56.4 | 0 | 35.87 | 5 | 74.2 | 16 | 49.62 | 34 | 47.5 | 25 |
| Juni 9 | 58.81 | 4 | 76.5 | 25 | 48.13 | 3 | 56.4 | 0 | 35.82 | 1 | 72.6 | 17 | 49.28 | 25 | 45.0 | 28 |
| 19 | 58.77 | 0 | 74.0 | 27 | 48.16 | 7 | 56.4 | 1 | 35.83 | 8 | 70.9 | 19 | 49.03 | 17 | 42.2 | 31 |
| 29 | 58.77 | 5 | 71.3 | 28 | 48.23 | 11 | 56.3 | 1 | 35.91 | 15 | 69.0 | 20 | 48.86 | 7 | 39.1 | 32 |
| Juli 9 | 58.82 | 11 | 68.5 | 31 | 48.34 | 16 | 56.2 | 1 | 36.06 | 22 | 67.0 | 21 | 48.79 | 3 | 35.9 | 37 |
| 19 | [9] 58.93 | 14 | 65.4 | 28 | [10] 48.50 | 18 | 56.1 | 1 | [10] 36.28 | 27 | 64.9 | 19 | [10] 48.82 | 13 | 32.2 | 33 |
| 29 | 59.07 | 17 | 62.6 | 26 | 48.68 | 21 | 56.0 | 1 | 36.55 | 32 | 63.0 | 18 | 48.95 | 22 | 28.9 | 31 |
| Aug. 8 | 59.24 | 21 | 60.0 | 23 | 48.89 | 24 | 55.9 | 2 | 36.87 | 36 | 61.2 | 18 | 49.17 | 31 | 25.8 | 29 |
| 18 | 59.45 | 25 | 57.7 | 21 | 49.13 | 26 | 55.7 | 3 | 37.23 | 40 | 59.4 | 16 | 49.48 | 39 | 22.9 | 26 |
| 28 | 59.70 | 27 | 55.6 | 16 | 49.39 | 28 | 55.4 | 4 | 37.63 | 44 | 57.8 | 14 | 49.87 | 47 | 20.3 | 21 |
| Sept. 7 | 59.97 | 30 | 54.0 | 12 | 49.67 | 29 | 55.0 | 4 | 38.07 | 46 | 56.4 | 13 | 50.34 | 52 | 18.2 | 16 |
| 17 | 60.27 | 32 | 52.8 | 6 | 49.96 | 32 | 54.6 | 5 | 38.53 | 49 | 55.1 | 10 | 50.86 | 58 | 16.6 | 10 |
| 27 | 60.59 | 33 | 52.2 | 0 | 50.28 | 32 | 54.1 | 6 | 39.02 | 51 | 54.1 | 8 | 51.44 | 60 | 15.6 | 4 |
| Okt. 7 | 60.92 | 34 | 52.2 | 5 | 50.60 | 34 | 53.5 | 6 | 39.53 | 53 | 53.3 | 6 | 52.04 | 62 | 15.2 | 3 |
| 17 | 61.26 | 35 | 52.7 | 11 | 50.94 | 33 | 52.9 | 7 | 40.06 | 52 | 52.7 | 2 | 52.66 | 62 | 15.5 | 10 |
| 27 | 61.61 | 33 | 53.8 | 17 | 51.27 | 34 | 52.2 | 8 | 40.58 | 52 | 52.5 | 0 | 53.28 | 59 | 16.5 | 15 |
| Nov. 6 | 61.94 | 32 | 55.5 | 21 | 51.61 | 33 | 51.4 | 7 | 41.10 | 51 | 52.5 | 3 | 53.87 | 54 | 18.0 | 22 |
| 16 | 62.26 | 30 | 57.6 | 26 | 51.94 | 31 | 50.7 | 7 | 41.61 | 48 | 52.8 | 7 | 54.41 | 49 | 20.2 | 27 |
| 26 | 62.56 | 26 | 60.2 | 29 | 52.25 | 30 | 50.0 | 7 | 42.09 | 44 | 53.5 | 9 | 54.90 | 40 | 22.9 | 32 |
| Dez. 6 | 62.82 | 23 | 63.1 | 31 | 52.55 | 26 | 49.3 | 5 | 42.53 | 39 | 54.4 | 13 | 55.30 | 30 | 26.1 | 34 |
| 16 | 63.05 | 17 | 66.2 | 33 | 52.81 | 22 | 48.8 | 3 | 42.92 | 33 | 55.7 | 15 | 55.60 | 20 | 29.5 | 37 |
| 26 | 63.22 | 13 | 69.5 | 33 | 53.03 | 18 | 48.5 | 3 | 43.25 | 25 | 57.2 | 18 | 55.80 | 9 | 33.2 | 38 |
| 36 | 63.35 | | 72.8 | | 53.21 | | 48.2 | | 43.50 | | 59.0 | | 55.89 | | 37.0 | |
| Mittl. Ort | 59.93 | | 74.0 | | 48.55 | | 49.2 | | 36.60 | | 60.2 | | 52.75 | | 39.6 | |
| | 278) | | | | 279) | | | | 280) | | | | 281) | | | |

| 1911 | ι Geminorum. $3^m.8$. | | | | Gr. 1308. $5^m.8$. | | | |
|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. + | |
| | $7^h\ 20^m$ | | 27° 58′ | | $7^h\ 21^m$ | | 68° 38′ | |
| Jan. 0 | 12.75 | 16 | 36.7 | 2 | 40.25 | 30 | 58.0 | 25 |
| 10 | 12.91 | 11 | 36.9 | 4 | 40.55 | 16 | 60.5 | 26 |
| 20 | 13.02 | 5 | 37.3 | 5 | 40.71 | 4 | 63.1 | 26 |
| 30 | 13.07 | 1 | 37.8 | 6 | 40.75 | 8 | 65.7 | 26 |
| Febr. 9 | 13.06 | 5 | 38.4 | 6 | 40.67 | 20 | 68.3 | 23 |
| 19 | 13.01 | 10 | 39.0 | 6 | 40.47 | 31 | 70.6 | 20 |
| März 1 | 12.91 | 14 | 39.6 | 6 | 40.16 | 39 | 72.6 | 17 |
| 11 | 12.77 | 16 | 40.2 | 5 | 39.77 | 45 | 74.3 | 13 |
| 21 | 12.61 | 18 | 40.7 | 4 | 39.32 | 48 | 75.6 | 8 |
| 31 | 12.43 | 18 | 41.1 | 3 | 38.84 | 50 | 76.4 | 3 |
| April 10 | 12.25 | 17 | 41.4 | 2 | 38.34 | 48 | 76.7 | 2 |
| 20 | 12.08 | 15 | 41.6 | 1 | 37.86 | 45 | 76.5 | 6 |
| 30 | 11.93 | 13 | 41.7 | 1 | 37.41 | 39 | 75.9 | 11 |
| Mai 10 | 11.80 | 9 | 41.6 | 1 | 37.02 | 32 | 74.8 | 15 |
| 20 | 11.71 | 5 | 41.5 | 3 | 36.70 | 23 | 73.3 | 18 |
| 30 | 11.66 | 2 | 41.2 | 3 | 36.47 | 14 | 71.5 | 21 |
| Juni 9 | 11.64 | 3 | 40.9 | 4 | 36.33 | 3 | 69.4 | 23 |
| 19 | 11.67 | 7 | 40.5 | 4 | 36.30 | 6 | 67.1 | 25 |
| 29 | 11.74 | 11 | 40.1 | 4 | 36.36 | 16 | 64.6 | 25 |
| Juli 9 | 11.85 | 16 | 39.7 | 5 | 36.52 | 28 | 62.1 | 28 |
| 19 | 12.01 | 18 | 39.2 | 5 | 36.80 | 35 | 59.3 | 26 |
| 29 | 12.19 | 22 | 38.7 | 5 | 37.15 | 44 | 56.7 | 24 |
| Aug. 8 | 12.41 | 24 | 38.2 | 5 | 37.59 | 51 | 54.3 | 22 |
| 18 | 12.65 | 26 | 37.7 | 5 | 38.10 | 58 | 52.1 | 21 |
| 28 | 12.91 | 29 | 37.2 | 6 | 38.68 | 65 | 50.0 | 19 |
| Sept. 7 | 13.20 | 31 | 36.6 | 7 | 39.33 | 69 | 48.1 | 16 |
| 17 | 13.51 | 33 | 35.9 | 6 | 40.02 | 73 | 46.5 | 13 |
| 27 | 13.84 | 34 | 35.3 | 7 | 40.75 | 76 | 45.2 | 9 |
| Okt. 7 | 14.18 | 35 | 34.6 | 7 | 41.51 | 78 | 44.3 | 6 |
| 17 | 14.53 | 35 | 33.9 | 7 | 42.29 | 79 | 43.7 | 1 |
| 27 | 14.88 | 36 | 33.2 | 7 | 43.08 | 78 | 43.6 | 2 |
| Nov. 6 | 15.24 | 35 | 32.5 | 6 | 43.86 | 75 | 43.8 | 6 |
| 16 | 15.59 | 33 | 31.9 | 5 | 44.61 | 71 | 44.4 | 11 |
| 26 | 15.92 | 31 | 31.4 | 3 | 45.32 | 65 | 45.5 | 14 |
| Dez. 6 | 16.23 | 28 | 31.1 | 3 | 45.97 | 56 | 46.9 | 18 |
| 16 | 16.51 | 23 | 30.8 | 1 | 46.53 | 47 | 48.7 | 21 |
| 26 | 16.74 | 19 | 30.7 | 1 | 47.00 | 35 | 50.8 | 24 |
| 36 | 16.93 | | 30.8 | | 47.35 | | 53.2 | |
| Mittl. Ort | 12.06 | | 32.7 | | 37.73 | | 55.2 | |
| | 282) | | | | 284) | | | |

| 1911 | β Canis min. $2^m.9$. | | | | ρ Geminor. $4^m.4$. | | | |
|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. + | |
| | $7^h\ 22^m$ | | 8° 28′ | | $7^h\ 23^m$ | | 31° 57′ | |
| Jan. 0 | 20.10 | 14 | 14.8 | 10 | 24.08 | 17 | 48.1 | 5 |
| 10 | 20.24 | 9 | 13.8 | 9 | 24.25 | 11 | 48.6 | 6 |
| 20 | 20.33 | 5 | 12.9 | 7 | 24.36 | 6 | 49.2 | 7 |
| 30 | 20.38 | 1 | 12.2 | 5 | 24.42 | 0 | 49.9 | 8 |
| Febr. 9 | 20.37 | 5 | 11.7 | 4 | 24.42 | 6 | 50.7 | 8 |
| 19 | 20.32 | 10 | 11.3 | 2 | 24.36 | 11 | 51.5 | 8 |
| März 1 | 20.22 | 12 | 11.1 | 1 | 24.25 | 14 | 52.3 | 8 |
| 11 | 20.10 | 15 | 11.0 | 1 | 24.11 | 16 | 53.1 | 6 |
| 21 | 19.95 | 15 | 11.1 | 1 | 23.95 | 18 | 53.7 | 5 |
| 31 | 19.80 | 16 | 11.2 | 2 | 23.77 | 19 | 54.2 | 4 |
| April 10 | 19.64 | 16 | 11.4 | 3 | 23.58 | 18 | 54.6 | 2 |
| 20 | 19.48 | 14 | 11.7 | 4 | 23.40 | 16 | 54.8 | 0 |
| 30 | 19.34 | 11 | 12.1 | 4 | 23.24 | 13 | 54.8 | 2 |
| Mai 10 | 19.23 | 8 | 12.5 | 5 | 23.11 | 10 | 54.6 | 3 |
| 20 | 19.15 | 5 | 13.0 | 6 | 23.01 | 6 | 54.3 | 4 |
| 30 | 19.10 | 2 | 13.6 | 6 | 22.95 | 2 | 53.9 | 4 |
| Juni 9 | 19.08 | 2 | 14.2 | 7 | 22.93 | 2 | 53.5 | 6 |
| 19 | 19.10 | 6 | 14.9 | 7 | 22.95 | 7 | 52.9 | 6 |
| 29 | 19.16 | 9 | 15.6 | 7 | 23.02 | 11 | 52.3 | 7 |
| Juli 9 | 19.25 | 14 | 16.3 | 7 | 23.13 | 17 | 51.6 | 7 |
| 19 | 19.39 | 16 | 17.0 | 7 | 23.30 | 18 | 50.9 | 8 |
| 29 | 19.55 | 19 | 17.7 | 6 | 23.48 | 22 | 50.1 | 7 |
| Aug. 8 | 19.74 | 20 | 18.3 | 4 | 23.70 | 25 | 49.4 | 7 |
| 18 | 19.94 | 23 | 18.7 | 3 | 23.95 | 28 | 48.7 | 8 |
| 28 | 20.17 | 26 | 19.0 | 1 | 24.23 | 30 | 47.9 | 7 |
| Sept. 7 | 20.43 | 27 | 19.1 | 0 | 24.53 | 32 | 47.2 | 8 |
| 17 | 20.70 | 29 | 19.1 | 3 | 24.85 | 33 | 46.4 | 7 |
| 27 | 20.99 | 30 | 18.8 | 5 | 25.18 | 35 | 45.7 | 8 |
| Okt. 7 | 21.29 | 31 | 18.3 | 7 | 25.53 | 37 | 44.9 | 7 |
| 17 | 21.60 | 31 | 17.6 | 9 | 25.90 | 37 | 44.2 | 7 |
| 27 | 21.91 | 32 | 16.7 | 11 | 26.27 | 36 | 43.5 | 5 |
| Nov. 6 | 22.23 | 31 | 15.6 | 12 | 26.63 | 36 | 43.0 | 5 |
| 16 | 22.54 | 29 | 14.4 | 13 | 26.99 | 35 | 42.5 | 4 |
| 26 | 22.83 | 28 | 13.1 | 13 | 27.34 | 33 | 42.1 | 2 |
| Dez. 6 | 23.11 | 25 | 11.8 | 12 | 27.67 | 29 | 41.9 | 0 |
| 16 | 23.36 | 21 | 10.6 | 13 | 27.96 | 25 | 41.9 | 1 |
| 26 | 23.57 | 16 | 9.3 | 11 | 28.21 | 20 | 42.0 | 4 |
| 36 | 23.73 | | 8.2 | | 28.41 | | 42.4 | |
| Mittl. Ort | 19.51 | | 9.6 | | 23.34 | | 44.4 | |
| | 285) | | | | 286) | | | |

| 1911 | α Gemin. 1ᵐ.8, 2ᵐ.8. AR. | | Dekl. + | | 25 Monocerot. 5ᵐ.3. AR. | | Dekl. − | | α Canis min.*) 0ᵐ.5. AR. | | Dekl. + | | 24 Lyncis. 5ᵐ.0. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $7^h\ 28^m$ | | 32° 5′ | | $7^h\ 32^m$ | | 3° 54′ | | $7^h\ 34^m$ | | 5° 27′ | | $7^h\ 35^m$ | | 58° 54′ | |
| Jan. 0 | 56.01 | 17 | 8.6 | 5 | 51.83 | 14 | 35.8 | 18 | 39.17 | 15 | 18.3 | 12 | 30.58 | 26 | 72.4 | 20 |
| 10 | 56.18 | 13 | 9.1 | 6 | 51.97 | 9 | 37.6 | 16 | 39.32 | 10 | 17.1 | 12 | 30.84 | 17 | 74.4 | 21 |
| 20 | 56.31 | 6 | 9.7 | 7 | 52.06 | 4 | 39.2 | 14 | 39.42 | 5 | 15.9 | 9 | 31.01 | 8 | 76.5 | 22 |
| 30 | 56.37 | 0 | 10.4 | 8 | 52.10 | 0 | 40.6 | 13 | 39.47 | 0 | 15.0 | 7 | 31.09 | 2 | 78.7 | 22 |
| Febr. 9 | 56.37 | 5 | 11.2 | 8 | 52.10 | 5 | 41.9 | 10 | 39.47 | 4 | 14.3 | 6 | 31.07 | 10 | 80.9 | 20 |
| 19 | 56.32 | 9 | 12.0 | 9 | 52.05 | 10 | 42.9 | 7 | 39.43 | 9 | 13.7 | 4 | 30.97 | 18 | 82.9 | 19 |
| März 1 | 56.23 | 14 | 12.9 | 8 | 51.95 | 13 | 43.6 | 6 | 36.34 | 12 | 13.3 | 2 | 30.79 | 24 | 84.8 | 16 |
| 11 | 56.09 | 16 | 13.7 | 6 | 51.82 | 14 | 44.2 | 3 | 39.22 | 14 | 13.1 | 1 | 30.55 | 29 | 86.4 | 13 |
| 21 | 55.93 | 18 | 14.3 | 6 | 51.68 | 16 | 44.5 | 1 | 39.08 | 15 | 13.0 | 1 | 30.26 | 32 | 87.7 | 9 |
| 31 | 55.75 | 19 | 14.9 | 3 | 51.52 | 17 | 44.6 | 1 | 38.93 | 16 | 13.1 | 1 | 29.94 | 33 | 88.6 | 5 |
| April 10 | 55.56 | 18 | 15.2 | 2 | 51.35 | 16 | 44.5 | 3 | 38.77 | 16 | 13.2 | 3 | 29.61 | 33 | 89.1 | 1 |
| 20 | 55.38 | 17 | 15.4 | 1 | 51.19 | 15 | 44.2 | 5 | 38.61 | 14 | 13.5 | 4 | 29.28 | 30 | 89.2 | 3 |
| 30 | 55.21 | 13 | 15.5 | 1 | 51.04 | 12 | 43.7 | 7 | 38.47 | 12 | 13.9 | 5 | 28.98 | 26 | 88.9 | 8 |
| Mai 10 | 55.08 | 10 | 15.4 | 3 | 50.92 | 10 | 43.0 | 8 | 38.35 | 9 | 14.4 | 5 | 28.72 | 22 | 88.1 | 11 |
| 20 | 54.98 | 7 | 15.1 | 4 | 50.82 | 6 | 42.2 | 10 | 38.26 | 6 | 14.9 | 6 | 28.50 | 16 | 87.0 | 14 |
| 30 | 54.91 | 3 | 14.7 | 5 | 50.76 | 4 | 41.2 | 11 | 38.20 | 3 | 15.5 | 7 | 28.34 | 9 | 85.6 | 16 |
| Juni 9 | 54.88 | 2 | 14.2 | 6 | 50.72 | 1 | 40.1 | 13 | 38.17 | 1 | 16.2 | 8 | 28.25 | 2 | 84.0 | 19 |
| 19 | 54.90 | 6 | 13.6 | 6 | 50.73 | 4 | 38.8 | 13 | 38.18 | 4 | 17.0 | 8 | 28.23 | 4 | 82.1 | 20 |
| 29 | 54.96 | 10 | 13.0 | 7 | 50.77 | 7 | 37.5 | 13 | 38.22 | 8 | 17.8 | 8 | 28.27 | 12 | 80.1 | 21 |
| Juli 9 | 55.06 | 15 | 12.3 | 8 | 50.84 | 11 | 36.2 | 15 | 38.30 | 12 | 18.6 | 9 | 28.39 | 20 | 78.0 | 24 |
| 19 | 55.21 | 18 | 11.5 | 7 | 50.95 | 14 | 34.7 | 13 | 38.42 | 14 | 19.5 | 7 | 28.59 | 25 | 75.6 | 22 |
| 29 | 55.39 | 22 | 10.8 | 8 | 51.09 | 17 | 33.4 | 12 | 38.56 | 16 | 20.2 | 7 | 28.84 | 30 | 73.4 | 21 |
| Aug. 8 | 55.61 | 24 | 10.0 | 8 | 51.26 | 19 | 32.2 | 10 | 38.72 | 20 | 20.9 | 6 | 29.14 | 36 | 71.3 | 21 |
| 18 | 55.85 | 27 | 9.2 | 8 | 51.45 | 22 | 31.2 | 8 | 38.92 | 22 | 21.5 | 3 | 29.50 | 41 | 69.2 | 19 |
| 28 | 56.12 | 29 | 8.4 | 8 | 51.67 | 24 | 30.4 | 6 | 39.14 | 25 | 21.8 | 2 | 29.91 | 45 | 67.3 | 18 |
| Sept. 7 | 56.41 | 31 | 7.6 | 8 | 51.91 | 26 | 29.8 | 4 | 39.39 | 26 | 22.0 | 0 | 30.36 | 49 | 65.5 | 16 |
| 17 | 56.72 | 34 | 6.8 | 8 | 52.17 | 28 | 29.4 | 0 | 39.65 | 28 | 22.0 | 3 | 30.85 | 52 | 63.9 | 13 |
| 27 | 57.06 | 35 | 6.0 | 9 | 52.45 | 30 | 29.4 | 4 | 39.93 | 29 | 21.7 | 5 | 31.37 | 54 | 62.6 | 11 |
| Okt. 7 | 57.41 | 36 | 5.1 | 8 | 52.75 | 30 | 29.8 | 7 | 40.22 | 30 | 21.2 | 8 | 31.91 | 57 | 61.5 | 9 |
| 17 | 57.77 | 37 | 4.3 | 7 | 53.05 | 31 | 30.5 | 9 | 40.52 | 32 | 20.4 | 10 | 32.48 | 57 | 60.6 | 5 |
| 27 | 58.14 | 37 | 3.6 | 6 | 53.36 | 31 | 31.4 | 13 | 40.84 | 31 | 19.4 | 12 | 33.05 | 57 | 60.1 | 2 |
| Nov. 6 | 58.51 | 36 | 3.0 | 6 | 53.67 | 30 | 32.7 | 16 | 41.15 | 31 | 18.2 | 13 | 33.62 | 56 | 59.9 | 2 |
| 16 | 58.87 | 35 | 2.4 | 4 | 53.97 | 30 | 34.3 | 17 | 41.46 | 30 | 16.9 | 15 | 34.18 | 54 | 60.1 | 5 |
| 26 | 59.22 | 33 | 2.0 | 3 | 54.27 | 27 | 36.0 | 19 | 41.76 | 28 | 15.4 | 15 | 34.72 | 50 | 60.6 | 9 |
| Dez. 6 | 59.55 | 30 | 1.7 | 0 | 54.54 | 25 | 37.9 | 19 | 42.04 | 25 | 13.9 | 15 | 35.22 | 45 | 61.5 | 12 |
| 16 | 59.85 | 26 | 1.7 | 1 | 54.79 | 21 | 39.8 | 20 | 42.29 | 21 | 12.4 | 15 | 35.67 | 38 | 62.7 | 16 |
| 26 | 60.11 | 21 | 1.8 | 3 | 55.00 | 16 | 41.8 | 18 | 42.50 | 18 | 10.9 | 13 | 36.05 | 30 | 64.3 | 18 |
| 36 | 60.32 | | 2.1 | | 55.16 | | 43.6 | | 42.68 | | 9.6 | | 36.35 | | 66.1 | |
| Mittl. Ort | 55.27 | | 5.1 | | 51.22 | | 42.0 | | 38.63 | | 13.6 | | 28.98 | | 70.5 | |
| | 287) | | | | 289) | | | | 291) | | | | 292) | | | |

*) Die Angaben für α Canis min. beziehen sich hier auf den Ort des sichtbaren Sterns.

| 1911 | κ Geminorum. $3^m.4$ AR. | | Dekl. + | | β Geminorum. $1^m.1$ AR. | | Dekl. + | | π Geminorum. $5^m.5$ AR. | | Dekl. + | | ζ Volantis. $3^m.9$ AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $7^h 39^m$ | | 24° 36′ | | $7^h 39^m$ | | 28° 14′ | | $7^h 41^m$ | | 33° 38′ | | $7^h 42^m$ | | 72° 23′ | |
| Jan. 0 | 5.25 | 18 | 47.5 | 1 | 53.00 | 18 | 34.2 | 2 | 47.01 | 19 | 8.5 | 5 | 59.10 | 9 | 20.2 | 38 |
| 10 | 5.43 | 12 | 47.4 | 1 | 53.18 | 13 | 34.4 | 3 | 47.20 | 14 | 9.0 | 6 | 59.19 | 5 | 24.0 | 37 |
| 20 | 5.55 | 7 | 47.5 | 3 | 53.31 | 7 | 34.7 | 5 | 47.34 | 7 | 9.6 | 8 | 59.14 | 19 | 27.7 | 36 |
| 30 | 5.62 | 2 | 47.8 | 4 | 53.38 | 1 | 35.2 | 6 | 47.41 | 2 | 10.4 | 9 | 58.95 | 34 | 31.3 | 34 |
| Febr. 9 | 5.64 | 4 | 48.2 | 4 | 53.39 | 3 | 35.8 | 6 | 47.43 | 4 | 11.3 | 10 | 58.61 | 45 | 34.7 | 31 |
| 19 | 5.60 | 9 | 48.6 | 5 | 53.36 | 9 | 36.4 | 7 | 47.39 | 9 | 12.3 | 9 | 58.16 | 55 | 37.8 | 28 |
| März 1 | 5.51 | 12 | 49.1 | 6 | 53.27 | 13 | 37.1 | 7 | 47.30 | 13 | 13.2 | 9 | 57.61 | 63 | 40.6 | 23 |
| 11 | 5.39 | 15 | 49.7 | 5 | 53.14 | 15 | 37.8 | 6 | 47.17 | 16 | 14.1 | 8 | 56.98 | 70 | 42.9 | 18 |
| 21 | 5.24 | 16 | 50.2 | 4 | 52.99 | 17 | 38.4 | 6 | 47.01 | 18 | 14.9 | 6 | 56.28 | 74 | 44.7 | 13 |
| 31 | 5.08 | 17 | 50.6 | 4 | 52.82 | 18 | 39.0 | 4 | 46.83 | 19 | 15.5 | 5 | 55.54 | 76 | 46.0 | 9 |
| April 10 | 4.91 | 17 | 51.0 | 3 | 52.64 | 17 | 39.4 | 2 | 46.64 | 18 | 16.0 | 2 | 54.78 | 77 | 46.9 | 2 |
| 20 | 4.74 | 15 | 51.3 | 2 | 52.47 | 16 | 39.6 | 2 | 46.46 | 17 | 16.2 | 1 | 54.01 | 75 | 47.1 | 2 |
| 30 | 4.59 | 13 | 51.5 | 1 | 52.31 | 14 | 39.8 | 0 | 46.29 | 14 | 16.3 | 1 | 53.26 | 71 | 46.9 | 8 |
| Mai 10 | 4.46 | 9 | 51.6 | 0 | 52.17 | 10 | 39.8 | 1 | 46.15 | 11 | 16.2 | 2 | 52.55 | 65 | 46.1 | 13 |
| 20 | 4.37 | 7 | 51.6 | 0 | 52.07 | 7 | 39.7 | 2 | 46.04 | 8 | 16.0 | 4 | 51.90 | 59 | 44.8 | 17 |
| 30 | 4.30 | 2 | 51.6 | 1 | 52.00 | 3 | 39.5 | 3 | 45.96 | 4 | 15.6 | 6 | 51.31 | 51 | 43.1 | 22 |
| Juni 9 | 4.28 | 1 | 51.5 | 2 | 51.97 | 1 | 39.2 | 3 | 45.92 | 1 | 15.0 | 6 | 50.80 | 41 | 40.9 | 26 |
| 19 | 4.29 | 4 | 51.3 | 3 | 51.98 | 5 | 38.9 | 5 | 45.93 | 5 | 14.4 | 7 | 50.39 | 31 | 38.3 | 28 |
| 29 | 4.33 | 9 | 51.0 | 3 | 52.03 | 9 | 38.4 | 5 | 45.98 | 9 | 13.7 | 8 | 50.08 | 19 | 35.5 | 31 |
| Juli 9 | 4.42 | 14 | 50.7 | 3 | 52.12 | 13 | 37.9 | 5 | 46.07 | 14 | 12.9 | 9 | 49.89 | 8 | 32.4 | 36 |
| 19 | 16 4.56 | 16 | 50.4 | 4 | 16 52.25 | 16 | 37.4 | 6 | 16 46.21 | 17 | 12.0 | 9 | 17 49.81 | 5 | 28.8 | 32 |
| 29 | 4.72 | 18 | 50.0 | 4 | 52.41 | 20 | 36.8 | 6 | 46.38 | 20 | 11.1 | 10 | 49.86 | 18 | 25.6 | 32 |
| Aug. 8 | 4.90 | 22 | 49.6 | 4 | 52.61 | 22 | 36.2 | 7 | 46.58 | 24 | 10.1 | 9 | 50.04 | 29 | 22.4 | 31 |
| 18 | 5.12 | 25 | 49.2 | 5 | 52.83 | 25 | 35.5 | 7 | 46.82 | 26 | 9.2 | 10 | 50.33 | 40 | 19.3 | 27 |
| 28 | 5.37 | 26 | 48.7 | 6 | 53.08 | 27 | 34.8 | 7 | 47.08 | 29 | 8.2 | 10 | 50.73 | 51 | 16.6 | 24 |
| Sept. 7 | 5.63 | 29 | 48.1 | 7 | 53.35 | 30 | 34.1 | 8 | 47.37 | 31 | 7.2 | 9 | 51.24 | 59 | 14.2 | 19 |
| 17 | 5.92 | 31 | 47.4 | 7 | 53.65 | 32 | 33.3 | 8 | 47.68 | 34 | 6.3 | 10 | 51.83 | 67 | 12.3 | 13 |
| 27 | 6.23 | 33 | 46.7 | 8 | 53.97 | 33 | 32.5 | 9 | 48.02 | 35 | 5.3 | 9 | 52.50 | 72 | 11.0 | 8 |
| Okt. 7 | 6.56 | 33 | 45.9 | 9 | 54.30 | 35 | 31.6 | 9 | 48.37 | 36 | 4.4 | 10 | 53.22 | 75 | 10.2 | 0 |
| 17 | 6.89 | 35 | 45.0 | 9 | 54.65 | 35 | 30.7 | 9 | 48.73 | 38 | 3.4 | 8 | 53.97 | 76 | 10.2 | 6 |
| 27 | 7.24 | 35 | 44.1 | 9 | 55.00 | 36 | 29.8 | 8 | 49.11 | 38 | 2.6 | 7 | 54.73 | 74 | 10.8 | 12 |
| Nov. 6 | 7.59 | 35 | 43.2 | 8 | 55.36 | 35 | 29.0 | 8 | 49.49 | 37 | 1.9 | 6 | 55.47 | 70 | 12.0 | 19 |
| 16 | 7.94 | 33 | 42.4 | 8 | 55.71 | 35 | 28.2 | 6 | 49.86 | 36 | 1.3 | 5 | 56.17 | 63 | 13.9 | 24 |
| 26 | 8.27 | 32 | 41.6 | 7 | 56.06 | 32 | 27.6 | 5 | 50.22 | 34 | 0.8 | 3 | 56.80 | 53 | 16.3 | 29 |
| Dez. 6 | 8.59 | 28 | 40.9 | 5 | 56.38 | 29 | 27.1 | 4 | 50.56 | 32 | 0.5 | 1 | 57.33 | 43 | 19.2 | 33 |
| 16 | 8.87 | 25 | 40.4 | 4 | 56.67 | 26 | 26.7 | 2 | 50.88 | 27 | 0.4 | 1 | 57.76 | 30 | 22.5 | 36 |
| 26 | 9.12 | 20 | 40.0 | 2 | 56.93 | 21 | 26.5 | 1 | 51.15 | 22 | 0.5 | 4 | 58.06 | 16 | 26.1 | 38 |
| 36 | 9.32 | | 39.8 | | 57.14 | | 26.6 | | 51.37 | | 0.9 | | 58.22 | | 29.9 | |
| Mittl. Ort | 4.60 | | 43.8 | | 52.31 | | 30.8 | | 46.25 | | 5.5 | | 55.16 | | 32.8 | |
| | 294) | | | | 295) | | | | 296) | | | | 297) | | | |

| 1911 | Gr. 1374. 5ᵐ.5. AR. | Δ | Dekl. + | Δ | χ Argus. 3ᵐ.5. AR. | Δ | Dekl. — | Δ | χ Geminorum. 5ᵐ.1. AR. | Δ | Dekl. + | Δ | ζ Argus. 2ᵐ.2. AR. | Δ | Dekl. — | Δ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $7^h\,49^m$ | | 74° 9′ | | $7^h\,54^m$ | | 52° 44′ | | $7^h\,58^m$ | | 28° 2′ | | $8^h\,0^m$ | | 39° 44′ | |
| Jan. 0 | 37.36 | 46 | 26.0 | 26 | 32.50 | 13 | 23.3 | 37 | 3.94 | 20 | 43.3 | 0 | 28.30 | 15 | 56.0 | 34 |
| 10 | 37.82 | 29 | 28.6 | 27 | 32.63 | 6 | 27.0 | 36 | 4.14 | 15 | 43.3 | 3 | 28.45 | 9 | 59.4 | 34 |
| 20 | 38.11 | 13 | 31.3 | 28 | 32.69 | 1 | 30.6 | 35 | 4.29 | 9 | 43.6 | 4 | 28.54 | 2 | 62.8 | 32 |
| 30 | 38.24 | 5 | 34.1 | 28 | 32.68 | 9 | 34.1 | 33 | 4.38 | 3 | 44.0 | 6 | 28.56 | 3 | 66.0 | 30 |
| Febr. 9 | 38.19 | 21 | 36.9 | 27 | 32.59 | 16 | 37.4 | 30 | 4.41 | 2 | 44.6 | 7 | 28.53 | 9 | 69.0 | 26 |
| 19 | 37.98 | 35 | 39.6 | 24 | 32.43 | 21 | 40.4 | 26 | 4.39 | 7 | 45.3 | 7 | 28.44 | 14 | 71.6 | 24 |
| März 1 | 37.63 | 48 | 42.0 | 20 | 32.22 | 26 | 43.0 | 22 | 4.32 | 10 | 46.0 | 7 | 28.30 | 18 | 74.0 | 19 |
| 11 | 37.15 | 57 | 44.0 | 17 | 31.96 | 30 | 45.2 | 18 | 4.22 | 14 | 46.7 | 7 | 28.12 | 21 | 75.9 | 15 |
| 21 | 36.58 | 63 | 45.7 | 11 | 31.66 | 32 | 47.0 | 12 | 4.08 | 17 | 47.4 | 6 | 27.91 | 23 | 77.4 | 11 |
| 31 | 35.95 | 67 | 46.8 | 7 | 31.34 | 34 | 48.2 | 8 | 3.91 | 17 | 48.0 | 5 | 27.68 | 24 | 78.5 | 6 |
| April 10 | 35.28 | 67 | 47.5 | 1 | 31.00 | 34 | 49.0 | 2 | 3.74 | 17 | 48.5 | 4 | 27.44 | 24 | 79.1 | 2 |
| 20 | 34.61 | 65 | 47.6 | 4 | 30.66 | 33 | 49.2 | 3 | 3.57 | 16 | 48.9 | 3 | 27.20 | 24 | 79.3 | 3 |
| 30 | 33.96 | 58 | 47.2 | 9 | 30.33 | 29 | 48.9 | 8 | 3.41 | 14 | 49.2 | 1 | 26.96 | 21 | 79.0 | 8 |
| Mai 10 | 33.38 | 51 | 46.3 | 14 | 30.04 | 28 | 48.1 | 12 | 3.27 | 11 | 49.3 | 0 | 26.75 | 19 | 78.2 | 12 |
| 20 | 32.87 | 41 | 44.9 | 17 | 29.76 | 24 | 46.9 | 17 | 3.16 | 8 | 49.3 | 2 | 26.56 | 16 | 77.0 | 15 |
| 30 | 32.46 | 30 | 43.2 | 22 | 29.52 | 20 | 45.2 | 21 | 3.08 | 5 | 49.1 | 3 | 26.40 | 13 | 75.5 | 20 |
| Juni 9 | 32.16 | 17 | 41.0 | 24 | 29.32 | 15 | 43.1 | 24 | 3.03 | 0 | 48.8 | 3 | 26.27 | 9 | 73.5 | 22 |
| 19 | 31.99 | 4 | 38.6 | 26 | 29.17 | 9 | 40.7 | 28 | 3.03 | 3 | 48.5 | 4 | 26.18 | 5 | 71.3 | 25 |
| 29 | 31.95 | 8 | 36.0 | 28 | 29.08 | 5 | 37.9 | 29 | 3.06 | 7 | 48.1 | 5 | 26.13 | 1 | 68.8 | 26 |
| Juli 9 | 32.03 | 24 | 33.2 | 31 | 29.03 | 1 | 35.0 | 31 | 3.13 | 11 | 47.6 | 6 | 26.12 | 4 | 66.2 | 28 |
| 19 | [18] 32.27 | 35 | 30.1 | 29 | [19] 29.04 | 8 | 31.9 | 34 | [20] 3.24 | 16 | 47.0 | 7 | [21] 26.16 | 9 | 63.4 | 30 |
| 29 | 32.62 | 47 | 27.2 | 28 | 29.12 | 12 | 28.5 | 30 | 3.40 | 17 | 46.3 | 7 | 26.25 | 12 | 60.4 | 27 |
| Aug. 8 | 33.09 | 57 | 24.4 | 27 | 29.24 | 19 | 25.5 | 29 | 3.57 | 20 | 45.6 | 7 | 26.37 | 16 | 57.7 | 25 |
| 18 | 33.66 | 68 | 21.7 | 25 | 29.43 | 23 | 22.6 | 25 | 3.77 | 24 | 44.9 | 8 | 26.53 | 20 | 55.2 | 23 |
| 28 | 34.34 | 76 | 19.2 | 23 | 29.66 | 29 | 20.1 | 22 | 4.01 | 26 | 44.1 | 8 | 26.73 | 24 | 52.9 | 19 |
| Sept. 7 | 35.10 | 84 | 16.9 | 20 | 29.95 | 32 | 17.9 | 18 | 4.27 | 28 | 43.3 | 9 | 26.97 | 28 | 51.0 | 15 |
| 17 | 35.94 | 91 | 14.9 | 17 | 30.27 | 37 | 16.1 | 12 | 4.55 | 31 | 42.4 | 10 | 27.25 | 30 | 49.5 | 10 |
| 27 | 36.85 | 96 | 13.2 | 14 | 30.64 | 39 | 14.9 | 6 | 4.86 | 33 | 41.4 | 10 | 27.55 | 33 | 48.5 | 4 |
| Okt. 7 | 37.81 | 100 | 11.8 | 10 | 31.03 | 42 | 14.3 | 0 | 5.19 | 34 | 40.4 | 11 | 27.88 | 34 | 48.1 | 1 |
| 17 | 38.81 | 102 | 10.8 | 6 | 31.45 | 43 | 14.3 | 7 | 5.53 | 35 | 39.3 | 10 | 28.22 | 36 | 48.2 | 8 |
| 27 | 39.83 | 102 | 10.2 | 1 | 31.88 | 42 | 15.0 | 13 | 5.88 | 36 | 38.3 | 10 | 28.58 | 36 | 49.0 | 13 |
| Nov. 6 | 40.85 | 100 | 10.1 | 3 | 32.30 | 42 | 16.3 | 19 | 6.24 | 36 | 37.3 | 10 | 28.94 | 36 | 50.3 | 19 |
| 16 | 41.85 | 96 | 10.4 | 8 | 32.72 | 38 | 18.2 | 24 | 6.60 | 35 | 36.3 | 8 | 29.30 | 34 | 52.2 | 23 |
| 26 | 42.81 | 89 | 11.2 | 13 | 33.10 | 35 | 20.6 | 29 | 6.95 | 34 | 35.5 | 6 | 29.64 | 31 | 54.5 | 28 |
| Dez. 6 | 43.70 | 80 | 12.5 | 17 | 33.45 | 30 | 23.5 | 33 | 7.29 | 31 | 34.9 | 5 | 29.95 | 27 | 57.3 | 31 |
| 16 | 44.50 | 67 | 14.2 | 21 | 33.75 | 24 | 26.8 | 35 | 7.60 | 27 | 34.4 | 3 | 30.22 | 23 | 60.4 | 34 |
| 26 | 45.17 | 54 | 16.3 | 24 | 33.99 | 17 | 30.3 | 37 | 7.87 | 23 | 34.1 | 1 | 30.45 | 18 | 63.8 | 33 |
| 36 | 45.71 | | 18.7 | | 34.16 | | 34.0 | | 8.10 | | 34.0 | | 30.63 | | 67.1 | |
| Mittl. Ort | 33.73 | | 25.3 | | 30.99 | | 35.4 | | 3.27 | | 40.4 | | 27.32 | | 67.2 | |
| | 300) | | | | 303) | | | | 305) | | | | 306) | | | |

| 1911 | 27 Lyncis. 4m.6. AR. | | Dekl. + | | ι Navis. 2m.8. AR. | | Dekl. — | | γ Argus. 2m.1. AR. | | Dekl. — | | Br. 1147. 5m.8. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8h 1m | | 51° 45′ | | 8h 3m | | 24° 2′ | | 8h 6m | | 47° 4′ | | 8h 8m | | 76° 1′ | |
| Jan. 0 | 47.32 | 27 | 51.2 | 15 | 45.87 | 16 | 40.8 | 28 | 48.54 | 15 | 13.8 | 35 | 27.46 | 57 | 47.2 | 25 |
| 10 | 47.59 | 19 | 52.7 | 17 | 46.03 | 11 | 43.6 | 28 | 48.69 | 9 | 17.3 | 36 | 28.03 | 39 | 49.7 | 27 |
| 20 | 47.78 | 11 | 54.4 | 18 | 46.14 | 6 | 46.4 | 26 | 48.78 | 2 | 20.9 | 34 | 28.42 | 20 | 52.4 | 29 |
| 30 | 47.89 | 4 | 56.2 | 18 | 46.20 | 1 | 49.0 | 23 | 48.80 | 5 | 24.3 | 33 | 28.62 | 1 | 55.3 | 29 |
| Febr. 9 | 47.93 | 3 | 58.0 | 19 | 46.21 | 4 | 51.3 | 21 | 48.75 | 11 | 27.6 | 29 | 28.63 | 18 | 58.2 | 27 |
| 19 | 47.90 | 11 | 59.9 | 18 | 46.17 | 9 | 53.4 | 18 | 48.64 | 16 | 30.5 | 26 | 28.45 | 35 | 60.9 | 26 |
| März 1 | 47.79 | 17 | 61.7 | 16 | 46.08 | 13 | 55.2 | 14 | 48.48 | 21 | 33.1 | 22 | 28.10 | 49 | 63.5 | 23 |
| 11 | 47.62 | 21 | 63.3 | 14 | 45.95 | 16 | 56.6 | 11 | 48.27 | 24 | 35.3 | 18 | 27.61 | 61 | 65.8 | 19 |
| 21 | 47.41 | 24 | 64.7 | 11 | 45.79 | 17 | 57.7 | 7 | 48.03 | 27 | 37.1 | 13 | 27.00 | 70 | 67.7 | 14 |
| 31 | 47.17 | 26 | 65.8 | 7 | 45.62 | 19 | 58.4 | 4 | 47.76 | 29 | 38.4 | 8 | 26.30 | 75 | 69.1 | 9 |
| April 10 | 46.91 | 27 | 66.5 | 4 | 45.43 | 19 | 58.8 | 0 | 47.47 | 28 | 39.2 | 3 | 25.55 | 76 | 70.0 | 3 |
| 20 | 46.64 | 25 | 66.9 | 1 | 45.24 | 18 | 58.8 | 4 | 47.19 | 28 | 39.5 | 2 | 24.79 | 75 | 70.3 | 2 |
| 30 | 46.39 | 22 | 67.0 | 4 | 45.06 | 17 | 58.4 | 7 | 46.91 | 26 | 39.3 | 6 | 24.04 | 70 | 70.1 | 7 |
| Mai 10 | 46.17 | 19 | 66.6 | 6 | 44.89 | 14 | 57.7 | 10 | 46.65 | 23 | 38.7 | 11 | 23.34 | 62 | 69.4 | 13 |
| 20 | 45.98 | 14 | 66.0 | 10 | 44.75 | 12 | 56.7 | 13 | 46.42 | 21 | 37.6 | 16 | 22.72 | 53 | 68.1 | 16 |
| 30 | 45.84 | 9 | 65.0 | 12 | 44.63 | 8 | 55.4 | 17 | 46.21 | 17 | 36.0 | 19 | 22.19 | 41 | 66.5 | 21 |
| Juni 9 | 45.75 | 4 | 63.8 | 15 | 44.55 | 5 | 53.7 | 18 | 46.04 | 12 | 34.1 | 23 | 21.78 | 27 | 64.4 | 24 |
| 19 | 45.71 | 1 | 62.3 | 16 | 44.50 | 2 | 51.9 | 20 | 45.92 | 9 | 31.8 | 26 | 21.51 | 13 | 62.0 | 26 |
| 29 | 45.72 | 7 | 60.7 | 18 | 44.48 | 2 | 49.9 | 21 | 45.83 | 4 | 29.2 | 27 | 21.38 | 1 | 59.4 | 28 |
| Juli 9 | 45.79 | 12 | 58.9 | 19 | 44.50 | 6 | 47.8 | 22 | 45.79 | 2 | 26.5 | 29 | 21.39 | 15 | 56.6 | 30 |
| 19 | 45.91 | 20 | 57.0 | 21 | 44.56 | 11 | 45.6 | 24 | 45.81 | 7 | 23.6 | 33 | 21.54 | 33 | 53.6 | 33 |
| 29 | [21] 46.11 | 22 | 54.9 | 20 | [22] 44.67 | 13 | 43.2 | 21 | [23] 45.88 | 11 | 20.3 | 29 | [23] 21.87 | 44 | 50.3 | 29 |
| Aug. 8 | 46.33 | 28 | 52.9 | 20 | 44.80 | 16 | 41.1 | 20 | 45.99 | 16 | 17.4 | 27 | 22.31 | 57 | 47.4 | 29 |
| 18 | 46.61 | 31 | 50.9 | 19 | 44.96 | 20 | 39.1 | 17 | 46.15 | 20 | 14.7 | 25 | 22.88 | 69 | 44.5 | 28 |
| 28 | 46.92 | 35 | 49.0 | 18 | 45.16 | 22 | 37.4 | 14 | 46.35 | 25 | 12.2 | 22 | 23.57 | 80 | 41.7 | 25 |
| Sept. 7 | 47.27 | 39 | 47.2 | 17 | 45.38 | 25 | 36.0 | 10 | 46.60 | 29 | 10.0 | 16 | 24.37 | 89 | 39.2 | 23 |
| 17 | 47.66 | 42 | 45.5 | 16 | 45.63 | 26 | 35.0 | 6 | 46.89 | 33 | 8.4 | 12 | 25.26 | 98 | 36.9 | 20 |
| 27 | 48.08 | 44 | 43.9 | 14 | 45.89 | 29 | 34.4 | 1 | 47.22 | 36 | 7.2 | 7 | 26.24 | 105 | 34.9 | 17 |
| Okt. 7 | 48.52 | 47 | 42.5 | 12 | 46.18 | 31 | 34.3 | 4 | 47.58 | 37 | 6.5 | 0 | 27.29 | 110 | 33.2 | 13 |
| 17 | 48.99 | 49 | 41.3 | 9 | 46.49 | 31 | 34.7 | 8 | 47.95 | 39 | 6.5 | 6 | 28.39 | 114 | 31.9 | 8 |
| 27 | 49.48 | 49 | 40.4 | 7 | 46.80 | 32 | 35.5 | 14 | 48.34 | 40 | 7.1 | 12 | 29.53 | 114 | 31.1 | 5 |
| Nov. 6 | 49.97 | 49 | 39.7 | 4 | 47.12 | 32 | 36.9 | 18 | 48.74 | 38 | 8.3 | 18 | 30.67 | 114 | 30.6 | 1 |
| 16 | 50.46 | 48 | 39.3 | 1 | 47.44 | 31 | 38.7 | 22 | 49.12 | 37 | 10.1 | 24 | 31.81 | 110 | 30.7 | 6 |
| 26 | 50.94 | 45 | 39.2 | 3 | 47.75 | 29 | 40.9 | 25 | 49.49 | 34 | 12.5 | 28 | 32.91 | 103 | 31.3 | 11 |
| Dez. 6 | 51.39 | 41 | 39.5 | 6 | 48.04 | 26 | 43.4 | 27 | 49.83 | 30 | 15.3 | 31 | 33.94 | 93 | 32.4 | 16 |
| 16 | 51.80 | 36 | 40.1 | 10 | 48.30 | 23 | 46.1 | 28 | 50.13 | 25 | 18.4 | 35 | 34.87 | 80 | 34.0 | 19 |
| 26 | 52.16 | 31 | 41.1 | 13 | 48.53 | 18 | 48.9 | 29 | 50.38 | 19 | 21.9 | 35 | 35.67 | 66 | 35.9 | 23 |
| 36 | 52.47 | | 42.4 | | 48.71 | | 51.8 | | 50.57 | | 25.4 | | 36.33 | | 38.2 | |
| Mittl. Ort | 46.10 | | 50.6 | | 45.20 | | 50.1 | | 47.35 | | 26.1 | | 23.24 | | 47.9 | |
| | 307) | | | | 308) | | | | 309) | | | | 310) | | | |

| 1911 | 20 Navis. 5ᵐ.3. | | | | β Cancri. 3ᵐ.5. | | | | 31 Lyncis. 4ᵐ.4. | | | | ε Argus. 1ᵐ.7. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. − | | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. − | |
| | $8^h\ 9^m$ | | 15° 30′ | | $8^h\ 11^m$ | | 9° 27′ | | $8^h\ 16^m$ | | 43° 28′ | | $8^h\ 20^m$ | | 59° 13′ | |
| Jan. 0 | 15.13 | 16 | 62.1 | 25 | 41.92 | 19 | 42.3 | 11 | 45.75 | 26 | 28.0 | 9 | 43.05 | 19 | 7.3 | 37 |
| 10 | 15.29 | 12 | 64.6 | 24 | 42.11 | 14 | 41.2 | 10 | 46.01 | 19 | 28.9 | 11 | 43.24 | 9 | 11.0 | 38 |
| 20 | 15.41 | 7 | 67.0 | 21 | 42.25 | 9 | 40.2 | 7 | 46.20 | 13 | 30.0 | 13 | 43.33 | 1 | 14.8 | 37 |
| 30 | 15.48 | 2 | 69.1 | 20 | 42.34 | 4 | 39.5 | 6 | 46.33 | 6 | 31.3 | 15 | 43.34 | 8 | 18.5 | 36 |
| Febr. 9 | 15.50 | 3 | 71.1 | 17 | 42.38 | 1 | 38.9 | 4 | 46.39 | 1 | 32.8 | 15 | 43.26 | 15 | 22.1 | 33 |
| 19 | 15.47 | 8 | 72.8 | 15 | 42.37 | 5 | 38.5 | 2 | 46.38 | 7 | 34.3 | 15 | 43.11 | 23 | 25.4 | 30 |
| März 1 | 15.39 | 11 | 74.3 | 11 | 42.32 | 9 | 38.3 | 0 | 46.31 | 12 | 35.8 | 14 | 42.88 | 28 | 28.4 | 26 |
| 11 | 15.28 | 14 | 75.4 | 9 | 42.23 | 12 | 38.3 | 0 | 46.19 | 16 | 37.2 | 12 | 42.60 | 34 | 31.0 | 22 |
| 21 | 15.14 | 15 | 76.3 | 5 | 42.11 | 14 | 38.3 | 2 | 46.03 | 19 | 38.4 | 11 | 42.26 | 37 | 33.2 | 17 |
| 31 | 14.99 | 17 | 76.8 | 2 | 41.97 | 15 | 38.5 | 3 | 45.84 | 21 | 39.5 | 8 | 41.89 | 39 | 34.9 | 12 |
| April 10 | 14.82 | 17 | 77.0 | 1 | 41.82 | 15 | 38.8 | 3 | 45.63 | 22 | 40.3 | 6 | 41.50 | 40 | 36.1 | 7 |
| 20 | 14.65 | 16 | 76.9 | 3 | 41.67 | 14 | 39.1 | 4 | 45.41 | 20 | 40.9 | 2 | 41.10 | 40 | 36.8 | 1 |
| 30 | 14.49 | 14 | 76.6 | 7 | 41.53 | 13 | 39.5 | 4 | 45.21 | 19 | 41.1 | 0 | 40.70 | 38 | 36.9 | 3 |
| Mai 10 | 14.35 | 12 | 75.9 | 9 | 41.40 | 10 | 39.9 | 5 | 45.02 | 16 | 41.1 | 4 | 40.32 | 36 | 36.6 | 9 |
| 20 | 14.23 | 10 | 75.0 | 11 | 41.30 | 8 | 40.4 | 5 | 44.86 | 12 | 40.7 | 5 | 39.96 | 33 | 35.7 | 14 |
| 30 | 14.13 | 7 | 73.9 | 13 | 41.22 | 5 | 40.9 | 5 | 44.74 | 8 | 40.2 | 9 | 39.63 | 28 | 34.3 | 18 |
| Juni 9 | 14.06 | 4 | 72.6 | 16 | 41.17 | 2 | 41.4 | 5 | 44.66 | 4 | 39.3 | 10 | 39.35 | 24 | 32.5 | 22 |
| 19 | 14.02 | 0 | 71.0 | 16 | 41.15 | 2 | 41.9 | 6 | 44.62 | 1 | 38.3 | 12 | 39.11 | 17 | 30.3 | 25 |
| 29 | 14.02 | 2 | 69.4 | 18 | 41.17 | 4 | 42.5 | 5 | 44.63 | 5 | 37.1 | 14 | 38.94 | 12 | 27.8 | 28 |
| Juli 9 | 14.04 | 6 | 67.6 | 18 | 41.21 | 8 | 43.0 | 5 | 44.68 | 9 | 35.7 | 15 | 38.82 | 6 | 25.0 | 31 |
| 19 | 14.10 | 10 | 65.8 | 19 | 41.29 | 12 | 43.5 | 4 | 44.77 | 16 | 34.2 | 17 | 38.76 | 1 | 21.9 | 34 |
| 29 | 14.20 | 13 | 63.9 | 18 | 41.41 | 14 | 43.9 | 4 | 44.93 | 18 | 32.5 | 16 | 38.77 | 9 | 18.5 | 31 |
| Aug. 8 | 14.33 | 16 | 62.1 | 15 | 41.55 | 17 | 44.3 | 2 | 45.11 | 22 | 30.9 | 17 | 38.86 | 15 | 15.4 | 30 |
| 18 | 14.49 | 18 | 60.6 | 13 | 41.72 | 20 | 44.5 | 1 | 45.33 | 25 | 29.2 | 16 | 39.01 | 22 | 12.4 | 28 |
| 28 | 14.67 | 21 | 59.3 | 11 | 41.92 | 22 | 44.6 | 1 | 45.58 | 29 | 27.6 | 17 | 39.23 | 27 | 9.6 | 25 |
| Sept. 7 | 14.88 | 24 | 58.2 | 7 | 42.14 | 24 | 44.5 | 3 | 45.87 | 33 | 25.9 | 16 | 39.50 | 34 | 7.1 | 21 |
| 17 | 15.12 | 26 | 57.5 | 4 | 42.38 | 26 | 44.2 | 5 | 46.20 | 35 | 24.3 | 16 | 39.84 | 39 | 5.0 | 15 |
| 27 | 15.38 | 28 | 57.1 | 1 | 42.64 | 29 | 43.7 | 7 | 46.55 | 38 | 22.7 | 14 | 40.23 | 43 | 3.5 | 10 |
| Okt. 7 | 15.66 | 30 | 57.2 | 5 | 42.93 | 30 | 43.0 | 9 | 46.93 | 40 | 21.3 | 14 | 40.67 | 47 | 2.5 | 4 |
| 17 | 15.96 | 31 | 57.7 | 10 | 43.23 | 32 | 42.1 | 11 | 47.33 | 42 | 19.9 | 12 | 41.14 | 48 | 2.1 | 3 |
| 27 | 16.27 | 31 | 58.7 | 13 | 43.55 | 32 | 41.0 | 13 | 47.75 | 42 | 18.7 | 10 | 41.62 | 50 | 2.4 | 10 |
| Nov. 6 | 16.58 | 32 | 60.0 | 17 | 43.87 | 33 | 39.7 | 14 | 48.17 | 43 | 17.7 | 7 | 42.12 | 48 | 3.4 | 16 |
| 16 | 16.90 | 31 | 61.7 | 20 | 44.20 | 32 | 38.3 | 14 | 48.60 | 43 | 17.0 | 5 | 42.60 | 46 | 5.0 | 22 |
| 26 | 17.21 | 29 | 63.7 | 23 | 44.52 | 31 | 36.9 | 15 | 49.03 | 41 | 16.5 | 2 | 43.06 | 43 | 7.2 | 27 |
| Dez. 6 | 17.50 | 27 | 66.0 | 25 | 44.83 | 28 | 35.4 | 15 | 49.44 | 37 | 16.3 | 1 | 43.49 | 36 | 9.9 | 31 |
| 16 | 17.77 | 24 | 68.5 | 25 | 45.11 | 25 | 33.9 | 13 | 49.81 | 34 | 16.4 | 4 | 43.85 | 31 | 13.0 | 35 |
| 26 | 18.01 | 19 | 71.0 | 25 | 45.36 | 22 | 32.6 | 13 | 50.15 | 29 | 16.8 | 7 | 44.16 | 22 | 16.5 | 37 |
| 36 | 18.20 | | 73.5 | | 45.58 | | 31.3 | | 50.44 | | 17.5 | | 44.38 | | 20.2 | |
| Mittl. Ort | 14.54 | | 70.5 | | 41.40 | | 37.5 | | 44.83 | | 27.5 | | 41.34 | | 21.9 | |
| | 311) | | | | 312) | | | | 314) | | | | 315) | | | |

| 1911 | Br. 1197. $3^m.6$. AR. | Δ | Dekl. − | Δ | o Ursae maj. $3^m.3$. AR. | Δ | Dekl. + | Δ | ϑ Chamael. $4^m.2$. AR. | Δ | Dekl. − | Δ | Gr. 1450. $6^m.3$. AR. | Δ | Dekl. + | Δ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $8^h\ 21^m$ | | 3° 36′ | | $8^h\ 22^m$ | | 61° 0′ | | $8^h\ 23^m$ | | 77° 11′ | | $8^h\ 27^m$ | | 38° 19′ | |
| Jan. 0 | 13.34 | 19 | 49.2 | 18 | 54.50 | 36 | 58.4 | 18 | 24.43 | 25 | 35.2 | 37 | 8.86 | 26 | 20.9 | 5 |
| 10 | 13.53 | 14 | 51.0 | 18 | 54.86 | 26 | 60.2 | 20 | 24.68 | 7 | 38.9 | 38 | 9.12 | 19 | 21.4 | 7 |
| 20 | 13.67 | 9 | 52.8 | 16 | 55.12 | 17 | 62.2 | 22 | 24.75 | 13 | 42.7 | 38 | 9.31 | 13 | 22.1 | 10 |
| 30 | 13.76 | 4 | 54.4 | 13 | 55.29 | 7 | 64.4 | 24 | 24.62 | 30 | 46.5 | 37 | 9.44 | 7 | 23.1 | 12 |
| Febr. 9 | 13.80 | 1 | 55.7 | 12 | 55.36 | 2 | 66.8 | 23 | 24.32 | 48 | 50.2 | 34 | 9.51 | 1 | 24.3 | 12 |
| 19 | 13.79 | 5 | 56.9 | 9 | 55.34 | 12 | 69.1 | 22 | 23.84 | 62 | 53.6 | 32 | 9.52 | 5 | 25.5 | 13 |
| März 1 | 13.74 | 9 | 57.8 | 6 | 55.22 | 19 | 71.3 | 21 | 23.22 | 76 | 56.8 | 29 | 9.47 | 10 | 26.8 | 12 |
| 11 | 13.65 | 11 | 58.4 | 5 | 55.03 | 27 | 73.4 | 17 | 22.46 | 87 | 59.7 | 24 | 9.37 | 14 | 28.0 | 12 |
| 21 | 13.54 | 14 | 58.9 | 2 | 54.76 | 30 | 75.1 | 14 | 21.59 | 94 | 62.1 | 20 | 9.23 | 16 | 29.2 | 11 |
| 31 | 13.40 | 15 | 59.1 | 0 | 54.46 | 34 | 76.5 | 10 | 20.65 | 101 | 64.1 | 15 | 9.07 | 19 | 30.3 | 8 |
| April 10 | 13.25 | 15 | 59.1 | 2 | 54.12 | 34 | 77.5 | 6 | 19.64 | 103 | 65.6 | 10 | 8.88 | 19 | 31.1 | 6 |
| 20 | 13.10 | 15 | 58.9 | 4 | 53.78 | 34 | 78.1 | 2 | 18.61 | 104 | 66.6 | 4 | 8.69 | 19 | 31.7 | 3 |
| 30 | 12.95 | 13 | 58.5 | 5 | 53.44 | 32 | 78.3 | 3 | 17.57 | 102 | 67.0 | 1 | 8.50 | 17 | 32.0 | 1 |
| Mai 10 | 12.82 | 11 | 58.0 | 6 | 53.12 | 28 | 78.0 | 7 | 16.55 | 97 | 66.9 | 6 | 8.33 | 15 | 32.1 | 1 |
| 20 | 12.71 | 9 | 57.4 | 9 | 52.84 | 23 | 77.3 | 11 | 15.58 | 92 | 66.3 | 11 | 8.18 | 11 | 32.0 | 4 |
| 30 | 12.62 | 6 | 56.5 | 9 | 52.61 | 17 | 76.2 | 15 | 14.66 | 82 | 65.2 | 16 | 8.07 | 8 | 31.6 | 5 |
| Juni 9 | 12.56 | 3 | 55.6 | 11 | 52.44 | 11 | 74.7 | 17 | 13.84 | 72 | 63.6 | 21 | 7.99 | 4 | 31.1 | 8 |
| 19 | 12.53 | 0 | 54.5 | 11 | 52.33 | 5 | 73.0 | 20 | 13.12 | 60 | 61.5 | 24 | 7.95 | 0 | 30.3 | 9 |
| 29 | 12.53 | 3 | 53.4 | 11 | 52.28 | 3 | 71.0 | 22 | 12.52 | 46 | 59.1 | 27 | 7.95 | 4 | 29.4 | 11 |
| Juli 9 | 12.56 | 6 | 52.3 | 12 | 52.31 | 9 | 68.8 | 24 | 12.06 | 30 | 56.4 | 30 | 7.99 | 8 | 28.3 | 12 |
| 19 | 12.62 | 10 | 51.1 | 13 | 52.40 | 18 | 66.4 | 27 | 11.76 | 15 | 53.4 | 35 | 8.07 | 13 | 27.1 | 15 |
| 29 | 12.72 | 12 | 49.8 | 10 | 52.58 | 23 | 63.7 | 25 | 11.61 | 3 | 49.9 | 32 | 8.20 | 16 | 25.6 | 14 |
| Aug. 8 | 12.84 | 15 | 48.8 | 9 | 52.81 | 29 | 61.2 | 25 | 11.64 | 21 | 46.7 | 31 | 8.36 | 19 | 24.2 | 14 |
| 18 | 12.99 | 17 | 47.9 | 8 | 53.10 | 34 | 58.7 | 24 | 11.85 | 37 | 43.6 | 30 | 8.55 | 23 | 22.8 | 15 |
| 28 | 13.16 | 20 | 47.1 | 5 | 53.44 | 40 | 56.3 | 23 | 12.22 | 53 | 40.6 | 27 | 8.78 | 26 | 21.3 | 15 |
| Sept. 7 | 13.36 | 23 | 46.6 | 2 | 53.84 | 45 | 54.0 | 22 | 12.75 | 67 | 37.9 | 23 | 9.04 | 29 | 19.8 | 15 |
| 17 | 13.59 | 26 | 46.4 | 0 | 54.29 | 50 | 51.8 | 20 | 13.42 | 79 | 35.6 | 18 | 9.33 | 32 | 18.3 | 16 |
| 27 | 13.85 | 27 | 46.4 | 4 | 54.79 | 53 | 49.8 | 18 | 14.21 | 90 | 33.8 | 13 | 9.65 | 34 | 16.7 | 14 |
| Okt. 7 | 14.12 | 29 | 46.8 | 7 | 55.32 | 57 | 48.0 | 15 | 15.11 | 97 | 32.5 | 6 | 9.99 | 37 | 15.3 | 15 |
| 17 | 14.41 | 31 | 47.5 | 11 | 55.89 | 60 | 46.5 | 13 | 16.08 | 101 | 31.9 | 0 | 10.36 | 39 | 13.8 | 13 |
| 27 | 14.72 | 32 | 48.6 | 13 | 56.49 | 61 | 45.2 | 8 | 17.09 | 101 | 31.9 | 7 | 10.75 | 40 | 12.5 | 11 |
| Nov. 6 | 15.04 | 31 | 49.9 | 16 | 57.10 | 61 | 44.4 | 5 | 18.10 | 99 | 32.6 | 13 | 11.15 | 40 | 11.4 | 10 |
| 16 | 15.35 | 32 | 51.5 | 18 | 57.71 | 60 | 43.9 | 0 | 19.09 | 91 | 33.9 | 20 | 11.55 | 40 | 10.4 | 8 |
| 26 | 15.67 | 30 | 53.3 | 19 | 58.31 | 57 | 43.9 | 3 | 20.00 | 81 | 35.9 | 25 | 11.95 | 39 | 9.6 | 5 |
| Dez. 6 | 15.97 | 28 | 55.2 | 21 | 58.88 | 53 | 44.2 | 8 | 20.81 | 68 | 38.4 | 29 | 12.34 | 36 | 9.1 | 3 |
| 16 | 16.25 | 25 | 57.3 | 20 | 59.41 | 47 | 45.0 | 12 | 21.49 | 53 | 41.3 | 34 | 12.70 | 33 | 8.8 | 1 |
| 26 | 16.50 | 21 | 59.3 | 20 | 59.88 | 40 | 46.2 | 16 | 22.02 | 35 | 44.7 | 36 | 13.03 | 29 | 8.9 | 3 |
| 36 | 16.71 | | 61.3 | | 60.28 | | 47.8 | | 22.37 | | 48.3 | | 13.32 | | 9.2 | |
| Mittl. Ort | 12.85 | | 55.9 | | 52.78 | | 59.7 | | 19.56 | | 51.5 | | 8.08 | | 20.3 | |
| | 316) | | | | 317) | | | | 318) | | | | 320) | | | |

| 1911 | η Cancri. 5ᵐ.6. AR. | | Dekl. + | | δ Cancri. 3ᵐ.9. AR. | | Dekl. + | | α Pyxidis. 3ᵐ.7. AR. | | Dekl. − | | ι Cancri. 4ᵐ.1. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8ʰ 27ᵐ | | 20° 44′ | | 8ʰ 39ᵐ | | 18° 28′ | | 8ʰ 40ᵐ | | 32° 51′ | | 8ʰ 41ᵐ | | 29° 4′ | |
| Jan. 0 | 34.40 | 22 | 41.7 | 6 | 38.27 | 22 | 58.0 | 7 | 1.58 | 19 | 42.2 | 32 | 19.48 | 25 | 71.0 | 1 |
| 10 | 34.62 | 17 | 41.1 | 3 | 38.49 | 18 | 57.3 | 5 | 1.77 | 15 | 45.4 | 32 | 19.73 | 19 | 70.9 | 1 |
| 20 | 34.79 | 12 | 40.8 | 1 | 38.67 | 13 | 56.8 | 3 | 1.92 | 8 | 48.6 | 31 | 19.92 | 14 | 71.0 | 4 |
| 30 | 34.91 | 6 | 40.7 | 1 | 38.80 | 7 | 56.5 | 0 | 2.00 | 3 | 51.7 | 29 | 20.06 | 8 | 71.4 | 5 |
| Febr. 9 | 34.97 | 1 | 40.8 | 3 | 38.87 | 2 | 56.5 | 1 | 2.03 | 2 | 54.6 | 27 | 20.14 | 3 | 71.9 | 8 |
| 19 | 34.98 | 4 | 41.1 | 4 | 38.89 | 2 | 56.6 | 2 | 2.01 | 8 | 57.3 | 23 | 20.17 | 3 | 72.7 | 8 |
| März 1 | 34.94 | 8 | 41.5 | 5 | 38.87 | 7 | 56.8 | 4 | 1.93 | 11 | 59.6 | 21 | 20.14 | 7 | 73.5 | 9 |
| 11 | 34.86 | 11 | 42.0 | 5 | 38.80 | 11 | 57.2 | 5 | 1.82 | 16 | 61.7 | 16 | 20.07 | 11 | 74.4 | 9 |
| 21 | 34.75 | 14 | 42.5 | 5 | 38.69 | 13 | 57.7 | 5 | 1.66 | 17 | 63.3 | 13 | 19.96 | 14 | 75.3 | 9 |
| 31 | 34.61 | 15 | 43.0 | 6 | 38.56 | 14 | 58.2 | 5 | 1.49 | 20 | 64.6 | 8 | 19.82 | 16 | 76.2 | 7 |
| April 10 | 34.46 | 16 | 43.6 | 4 | 38.42 | 15 | 58.7 | 5 | 1.29 | 21 | 65.4 | 4 | 19.66 | 17 | 76.9 | 6 |
| 20 | 34.30 | 14 | 44.0 | 4 | 38.27 | 15 | 59.2 | 4 | 1.08 | 19 | 65.8 | 1 | 19.49 | 16 | 77.5 | 5 |
| 30 | 34.16 | 14 | 44.4 | 4 | 38.12 | 13 | 59.6 | 4 | 0.89 | 19 | 65.9 | 4 | 19.33 | 15 | 78.0 | 3 |
| Mai 10 | 34.02 | 11 | 44.8 | 2 | 37.99 | 12 | 60.0 | 3 | 0.70 | 17 | 65.5 | 8 | 19.18 | 13 | 78.3 | 2 |
| 20 | 33.91 | 9 | 45.0 | 2 | 37.87 | 9 | 60.3 | 3 | 0.53 | 15 | 64.7 | 11 | 19.05 | 10 | 78.5 | 0 |
| 30 | 33.82 | 6 | 45.2 | 1 | 37.78 | 6 | 60.6 | 2 | 0.38 | 12 | 63.6 | 15 | 18.95 | 7 | 78.5 | 2 |
| Juni 9 | 33.76 | 3 | 45.3 | 0 | 37.72 | 4 | 60.8 | 1 | 0.26 | 10 | 62.1 | 17 | 18.88 | 5 | 78.3 | 3 |
| 19 | 33.73 | 1 | 45.3 | 0 | 37.68 | 1 | 60.9 | 1 | 0.16 | 6 | 60.4 | 21 | 18.83 | 1 | 78.0 | 5 |
| 29 | 33.74 | 3 | 45.3 | 1 | 37.67 | 3 | 61.0 | 1 | 0.10 | 3 | 58.3 | 22 | 18.82 | 3 | 77.5 | 5 |
| Juli 9 | 33.77 | 7 | 45.2 | 2 | 37.70 | 6 | 60.9 | 1 | 0.07 | 1 | 56.1 | 24 | 18.85 | 6 | 77.0 | 7 |
| 19 | 33.84 | 12 | 45.0 | 3 | 37.76 | 9 | 60.8 | 2 | 0.08 | 4 | 53.7 | 24 | 18.91 | 9 | 76.3 | 8 |
| 29 | [28] 33.96 | 14 | 44.7 | 4 | 37.85 | 13 | 60.6 | 2 | 0.12 | 9 | 51.3 | 26 | 19.00 | 14 | 75.5 | 10 |
| Aug. 8 | 34.10 | 16 | 44.3 | 4 | [31] 37.98 | 15 | 60.4 | 4 | [31] 0.21 | 12 | 48.7 | 23 | [31] 19.14 | 16 | 74.5 | 10 |
| 18 | 34.26 | 19 | 43.9 | 6 | 38.13 | 18 | 60.0 | 5 | 0.33 | 15 | 46.4 | 21 | 19.30 | 19 | 73.5 | 11 |
| 28 | 34.45 | 22 | 43.3 | 7 | 38.31 | 20 | 59.5 | 7 | 0.48 | 20 | 44.3 | 18 | 19.49 | 23 | 72.4 | 12 |
| Sept. 7 | 34.67 | 25 | 42.6 | 8 | 38.51 | 24 | 58.8 | 8 | 0.68 | 22 | 42.5 | 15 | 19.72 | 25 | 71.2 | 13 |
| 17 | 34.92 | 27 | 41.8 | 10 | 38.75 | 26 | 58.0 | 9 | 0.90 | 26 | 41.0 | 10 | 19.97 | 28 | 69.9 | 13 |
| 27 | 35.19 | 30 | 40.8 | 10 | 39.01 | 28 | 57.1 | 11 | 1.16 | 29 | 40.0 | 5 | 20.25 | 31 | 68.6 | 14 |
| Okt. 7 | 35.49 | 31 | 39.8 | 12 | 39.29 | 31 | 56.0 | 13 | 1.45 | 32 | 39.5 | 0 | 20.56 | 32 | 67.2 | 14 |
| 17 | 35.80 | 33 | 38.6 | 12 | 39.60 | 32 | 54.7 | 13 | 1.77 | 33 | 39.5 | 5 | 20.88 | 35 | 65.8 | 14 |
| 27 | 36.13 | 34 | 37.4 | 13 | 39.92 | 34 | 53.4 | 14 | 2.10 | 35 | 40.0 | 10 | 21.23 | 37 | 64.4 | 14 |
| Nov. 6 | 36.47 | 35 | 36.1 | 13 | 40.26 | 34 | 52.0 | 14 | 2.45 | 35 | 41.0 | 18 | 21.60 | 37 | 63.0 | 13 |
| 16 | 36.82 | 35 | 34.8 | 13 | 40.60 | 35 | 50.6 | 14 | 2.80 | 34 | 42.8 | 21 | 21.97 | 37 | 61.7 | 11 |
| 26 | 37.17 | 33 | 33.5 | 12 | 40.95 | 33 | 49.2 | 13 | 3.14 | 33 | 44.9 | 25 | 22.34 | 36 | 60.6 | 10 |
| Dez. 6 | 37.50 | 31 | 32.3 | 10 | 41.28 | 32 | 47.9 | 12 | 3.47 | 30 | 47.4 | 28 | 22.70 | 34 | 59.6 | 8 |
| 16 | 37.81 | 28 | 31.3 | 9 | 41.60 | 28 | 46.7 | 11 | 3.77 | 27 | 50.2 | 31 | 23.04 | 31 | 58.8 | 5 |
| 26 | 38.09 | 25 | 30.4 | 7 | 41.88 | 25 | 45.6 | 9 | 4.04 | 22 | 53.3 | 31 | 23.35 | 27 | 58.3 | 3 |
| 36 | 38.34 | | 29.7 | | 42.13 | | 44.7 | | 4.26 | | 56.4 | | 23.62 | | 58.0 | |
| Mittl. Ort | 33.86 | | 38.8 | | 37.76 | | 55.1 | | 0.93 | | 54.4 | | 18.88 | | 69.8 | |
| | 321) | | | | 326) | | | | 327) | | | | 328) | | | |

| 1911 | δ Argus. 2ᵐ.0. AR. | | Dekl. − | | ζ Hydrae. 3ᵐ.1. AR. | | Dekl. + | | c Carinae. 4ᵐ.0. AR. | | Dekl. − | | ι Ursae maj. 2ᵐ.9. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $8^h 42^m$ | | 54° 22′ | | $8^h 50^m$ | | 6° 16′ | | $8^h 52^m$ | | 60° 17′ | | $8^h 53^m$ | | 48° 23′ | |
| Jan. 0 | 16.01 | 21 | 40.4 | 37 | 41.84 | 22 | 70.2 | 15 | 63.37 | 25 | 58.2 | 37 | 8.21 | 32 | 28.1 | 9 |
| 10 | 16.22 | 14 | 44.1 | 37 | 42.06 | 18 | 68.7 | 13 | 63.62 | 16 | 61.9 | 38 | 8.53 | 26 | 29.0 | 12 |
| 20 | 16.36 | 6 | 47.8 | 38 | 42.24 | 12 | 67.4 | 10 | 63.78 | 7 | 65.7 | 38 | 8.79 | 18 | 30.2 | 15 |
| 30 | 16.42 | 2 | 51.6 | 35 | 42.36 | 8 | 66.4 | 9 | 63.85 | 1 | 69.5 | 37 | 8.97 | 11 | 31.7 | 16 |
| Febr. 9 | 16.40 | 7 | 55.1 | 34 | 42.44 | 3 | 65.5 | 6 | 63.84 | 10 | 73.2 | 36 | 9.08 | 4 | 33.3 | 19 |
| 19 | 16.33 | 15 | 58.5 | 31 | 42.47 | 2 | 64.9 | 4 | 63.74 | 17 | 76.8 | 32 | 9.12 | 3 | 35.2 | 18 |
| März 1 | 16.18 | 22 | 61.6 | 27 | 42.45 | 6 | 64.5 | 3 | 63.57 | 25 | 80.0 | 30 | 9.09 | 10 | 37.0 | 18 |
| 11 | 15.96 | 25 | 64.3 | 23 | 42.39 | 10 | 64.2 | 0 | 63.32 | 30 | 83.0 | 26 | 8.99 | 14 | 38.8 | 16 |
| 21 | 15.71 | 29 | 66.6 | 19 | 42.29 | 12 | 64.2 | 1 | 63.02 | 34 | 85.6 | 21 | 8.85 | 19 | 40.4 | 15 |
| 31 | 15.42 | 32 | 68.5 | 14 | 42.17 | 13 | 64.3 | 2 | 62.68 | 38 | 87.7 | 16 | 8.66 | 22 | 41.9 | 11 |
| April 10 | 15.10 | 33 | 69.9 | 9 | 42.04 | 14 | 64.5 | 3 | 62.30 | 40 | 89.3 | 11 | 8.44 | 23 | 43.0 | 9 |
| 20 | 14.77 | 33 | 70.8 | 4 | 41.90 | 14 | 64.8 | 4 | 61.90 | 39 | 90.4 | 7 | 8.21 | 23 | 43.9 | 5 |
| 30 | 14.44 | 32 | 71.2 | 1 | 41.76 | 13 | 65.2 | 5 | 61.51 | 39 | 91.1 | 1 | 7.98 | 21 | 44.4 | 2 |
| Mai 10 | 14.12 | 31 | 71.1 | 7 | 41.63 | 11 | 65.7 | 5 | 61.12 | 38 | 91.2 | 4 | 7.77 | 20 | 44.6 | 1 |
| 20 | 13.81 | 28 | 70.4 | 11 | 41.52 | 10 | 66.2 | 5 | 60.74 | 36 | 90.8 | 10 | 7.57 | 17 | 44.5 | 5 |
| 30 | 13.53 | 24 | 69.3 | 15 | 41.42 | 7 | 66.7 | 6 | 60.38 | 33 | 89.8 | 14 | 7.40 | 13 | 44.0 | 8 |
| Juni 9 | 13.29 | 21 | 67.8 | 20 | 41.35 | 4 | 67.3 | 6 | 60.05 | 26 | 88.4 | 18 | 7.27 | 9 | 43.2 | 11 |
| 19 | 13.08 | 16 | 65.8 | 23 | 41.31 | 2 | 67.9 | 6 | 59.79 | 23 | 86.6 | 22 | 7.18 | 5 | 42.1 | 13 |
| 29 | 12.92 | 12 | 63.5 | 26 | 41.29 | 1 | 68.5 | 6 | 59.56 | 18 | 84.4 | 26 | 7.13 | 0 | 40.8 | 16 |
| Juli 9 | 12.80 | 6 | 60.9 | 29 | 41.30 | 5 | 69.1 | 6 | 59.38 | 11 | 81.8 | 28 | 7.13 | 5 | 39.2 | 17 |
| 19 | 12.74 | 1 | 58.0 | 29 | 41.35 | 7 | 69.7 | 5 | 59.27 | 5 | 79.0 | 30 | 7.18 | 9 | 37.5 | 19 |
| 29 | 12.73 | 6 | 55.1 | 33 | ³41.42 | 11 | 70.2 | 5 | ³59.22 | 2 | 76.0 | 34 | 7.27 | 15 | 35.6 | 22 |
| Aug. 8 | ¹12.79 | 11 | 51.8 | 30 | 41.53 | 13 | 70.7 | 3 | 59.24 | 10 | 72.6 | 30 | ³7.42 | 18 | 33.4 | 21 |
| 18 | 12.90 | 17 | 48.8 | 27 | 41.66 | 16 | 71.0 | 1 | 59.34 | 16 | 69.6 | 30 | 7.60 | 22 | 31.3 | 21 |
| 28 | 13.07 | 23 | 46.1 | 25 | 41.82 | 18 | 71.1 | 0 | 59.50 | 24 | 66.6 | 26 | 7.82 | 27 | 29.2 | 21 |
| Sept. 7 | 13.30 | 29 | 43.6 | 21 | 42.00 | 21 | 71.1 | 3 | 59.74 | 30 | 64.0 | 23 | 8.09 | 30 | 27.1 | 21 |
| 17 | 13.59 | 33 | 41.5 | 17 | 42.21 | 24 | 70.8 | 5 | 60.04 | 36 | 61.7 | 19 | 8.39 | 35 | 25.0 | 21 |
| 27 | 13.92 | 37 | 39.8 | 10 | 42.45 | 26 | 70.3 | 7 | 60.40 | 42 | 59.8 | 13 | 8.74 | 37 | 22.9 | 20 |
| Okt. 7 | 14.29 | 40 | 38.8 | 5 | 42.71 | 29 | 69.6 | 10 | 60.82 | 46 | 58.5 | 7 | 9.11 | 41 | 20.9 | 18 |
| 17 | 14.69 | 45 | 38.3 | 1 | 43.00 | 30 | 68.6 | 13 | 61.28 | 49 | 57.8 | 1 | 9.52 | 43 | 19.1 | 16 |
| 27 | 15.14 | 45 | 38.4 | 8 | 43.30 | 32 | 67.3 | 14 | 61.77 | 51 | 57.7 | 6 | 9.95 | 46 | 17.5 | 14 |
| Nov. 6 | 15.59 | 45 | 39.2 | 14 | 43.62 | 33 | 65.9 | 16 | 62.28 | 52 | 58.3 | 12 | 10.41 | 46 | 16.1 | 12 |
| 16 | 16.04 | 44 | 40.6 | 20 | 43.95 | 33 | 64.3 | 16 | 62.80 | 50 | 59.5 | 18 | 10.87 | 47 | 14.9 | 8 |
| 26 | 16.48 | 40 | 42.6 | 26 | 44.28 | 32 | 62.7 | 18 | 63.30 | 46 | 61.3 | 25 | 11.34 | 45 | 14.1 | 4 |
| Dez. 6 | 16.88 | 38 | 45.2 | 30 | 44.60 | 30 | 60.9 | 17 | 63.76 | 43 | 63.8 | 29 | 11.79 | 44 | 13.7 | 1 |
| 16 | 17.26 | 31 | 48.2 | 33 | 44.90 | 28 | 59.2 | 17 | 64.19 | 36 | 66.7 | 33 | 12.23 | 39 | 13.6 | 3 |
| 26 | 17.57 | 25 | 51.5 | 37 | 45.18 | 24 | 57.5 | 15 | 64.55 | 29 | 70.0 | 36 | 12.62 | 35 | 13.9 | 6 |
| 36 | 17.82 | | 55.2 | | 45.42 | | 56.0 | | 64.84 | | 73.6 | | 12.97 | | 14.5 | |
| Mittl. Ort | 14.77 | | 55.9 | | 41.43 | | 65.3 | | 61.90 | | 75.1 | | 7.21 | | 30.2 | |
| | 330) | | | | 334) | | | | 336) | | | | 335) | | | |

| 1911 | α Cancri. 4ᵐ.1. | | | | 10 Ursae maj. 3ᵐ.9. | | | | κ Ursae maj. 3ᵐ.3. | | | | α Volantis. 4ᵐ.1. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. − | |
| | 8ʰ 53ᵐ | | 12° 11′ | | 8ʰ 54ᵐ | | 42° 7′ | | 8ʰ 57ᵐ | | 47° 30′ | | 9ʰ 0ᵐ | | 66° 2′ | |
| Jan. 0 | 37.71 s | 23 | 73.7 " | 11 | 52.87 s | 30 | 67.3 " | 5 | 34.27 s | 32 | 30.7 " | 8 | 64.50 s | 29 | 8.5 " | 37 |
| 10 | 37.94 | 19 | 72.6 | 9 | 53.17 | 24 | 67.8 | 9 | 34.59 | 26 | 31.5 | 11 | 64.79 | 19 | 12.2 | 38 |
| 20 | 38.13 | 13 | 71.7 | 7 | 53.41 | 17 | 68.7 | 11 | 34.85 | 19 | 32.6 | 14 | 64.98 | 8 | 16.0 | 39 |
| 30 | 38.26 | 9 | 71.0 | 5 | 53.58 | 11 | 69.8 | 13 | 35.04 | 12 | 34.0 | 16 | 65.06 | 2 | 19.9 | 38 |
| Febr. 9 | 38.35 | 3 | 70.5 | 3 | 53.69 | 4 | 71.1 | 15 | 35.16 | 4 | 35.6 | 18 | 65.04 | 12 | 23.7 | 37 |
| 19 | 38.38 | 2 | 70.2 | 1 | 53.73 | 3 | 72.6 | 15 | 35.20 | 2 | 37.4 | 18 | 64.92 | 21 | 27.4 | 34 |
| März 1 | 38.36 | 5 | 70.1 | 1 | 53.70 | 7 | 74.1 | 15 | 35.18 | 9 | 39.2 | 17 | 64.71 | 30 | 30.8 | 32 |
| 11 | 38.31 | 10 | 70.2 | 2 | 53.63 | 13 | 75.6 | 15 | 35.09 | 13 | 40.9 | 17 | 64.41 | 36 | 34.0 | 27 |
| 21 | 38.21 | 11 | 70.4 | 3 | 53.50 | 16 | 77.1 | 13 | 34.96 | 18 | 42.6 | 15 | 64.05 | 42 | 36.7 | 23 |
| 31 | 38.10 | 14 | 70.7 | 4 | 53.34 | 19 | 78.4 | 11 | 34.78 | 21 | 44.1 | 12 | 63.63 | 47 | 39.0 | 19 |
| April 10 | 37.96 | 14 | 71.1 | 4 | 53.15 | 19 | 79.5 | 8 | 34.57 | 22 | 45.3 | 8 | 63.16 | 49 | 40.9 | 14 |
| 20 | 37.82 | 14 | 71.5 | 5 | 52.96 | 20 | 80.3 | 6 | 34.35 | 22 | 46.1 | 6 | 62.67 | 50 | 42.3 | 9 |
| 30 | 37.68 | 13 | 72.0 | 4 | 52.76 | 19 | 80.9 | 2 | 34.13 | 22 | 46.7 | 3 | 62.17 | 50 | 43.2 | 3 |
| Mai 10 | 37.55 | 12 | 72.4 | 5 | 52.57 | 17 | 81.1 | 0 | 33.91 | 19 | 47.0 | 1 | 61.67 | 48 | 43.5 | 3 |
| 20 | 37.43 | 9 | 72.9 | 4 | 52.40 | 14 | 81.1 | 3 | 33.72 | 16 | 46.9 | 4 | 61.19 | 46 | 43.2 | 7 |
| 30 | 37.34 | 7 | 73.3 | 4 | 52.26 | 12 | 80.8 | 5 | 33.56 | 14 | 46.5 | 7 | 60.73 | 43 | 42.5 | 12 |
| Juni 9 | 37.27 | 5 | 73.7 | 4 | 52.14 | 7 | 80.3 | 9 | 33.42 | 9 | 45.8 | 10 | 60.30 | 38 | 41.3 | 17 |
| 19 | 37.22 | 1 | 74.1 | 3 | 52.07 | 4 | 79.4 | 10 | 33.33 | 5 | 44.8 | 13 | 59.92 | 32 | 39.6 | 22 |
| 29 | 37.21 | 1 | 74.4 | 3 | 52.03 | 1 | 78.4 | 12 | 33.28 | 0 | 43.5 | 15 | 59.60 | 25 | 37.4 | 25 |
| Juli 9 | 37.22 | 4 | 74.7 | 3 | 52.04 | 4 | 77.2 | 15 | 33.28 | 4 | 42.0 | 17 | 59.35 | 18 | 34.9 | 27 |
| 19 | 37.26 | 7 | 75.0 | 1 | 52.08 | 9 | 75.7 | 15 | 33.32 | 8 | 40.3 | 18 | 59.17 | 11 | 32.2 | 30 |
| 29 | 37.33 | 11 | 75.1 | 1 | 52.17 | 14 | 74.2 | 19 | 33.40 | 14 | 38.5 | 22 | 59.06 | 1 | 29.2 | 35 |
| Aug. 8 | 37.44 | 13 | 75.2 | 1 | 52.31 | 16 | 72.3 | 18 | 33.54 | 17 | 36.3 | 20 | 59.05 | 7 | 25.7 | 31 |
| 18 | 37.57 | 16 | 75.1 | 2 | 52.47 | 20 | 70.5 | 18 | 33.71 | 22 | 34.3 | 21 | 59.12 | 16 | 22.6 | 30 |
| 28 | 37.73 | 19 | 74.9 | 4 | 52.67 | 24 | 68.7 | 19 | 33.93 | 26 | 32.2 | 21 | 59.28 | 25 | 19.6 | 27 |
| Sept. 7 | 37.92 | 22 | 74.5 | 5 | 52.91 | 28 | 66.8 | 19 | 34.19 | 29 | 30.1 | 22 | 59.53 | 34 | 16.9 | 25 |
| 17 | 38.14 | 24 | 74.0 | 7 | 53.19 | 31 | 64.9 | 19 | 34.48 | 33 | 27.9 | 20 | 59.87 | 41 | 14.4 | 20 |
| 27 | 38.38 | 27 | 73.3 | 10 | 53.50 | 34 | 63.0 | 18 | 34.81 | 37 | 25.9 | 21 | 60.28 | 48 | 12.4 | 15 |
| Okt. 7 | 38.65 | 29 | 72.3 | 12 | 53.84 | 37 | 61.2 | 18 | 35.18 | 40 | 23.8 | 18 | 60.76 | 54 | 10.9 | 9 |
| 17 | 38.94 | 31 | 71.1 | 13 | 54.21 | 39 | 59.4 | 16 | 35.58 | 43 | 22.0 | 17 | 61.30 | 58 | 10.0 | 3 |
| 27 | 39.25 | 32 | 69.8 | 14 | 54.60 | 41 | 57.8 | 15 | 36.01 | 45 | 20.3 | 14 | 61.88 | 60 | 9.7 | 3 |
| Nov. 6 | 39.57 | 34 | 68.4 | 16 | 55.01 | 43 | 56.3 | 12 | 36.46 | 46 | 18.9 | 12 | 62.48 | 61 | 10.0 | 11 |
| 16 | 39.91 | 33 | 66.8 | 16 | 55.44 | 42 | 55.1 | 10 | 36.92 | 46 | 17.7 | 9 | 63.09 | 59 | 11.1 | 17 |
| 26 | 40.24 | 33 | 65.2 | 16 | 55.86 | 42 | 54.1 | 7 | 37.38 | 45 | 16.8 | 6 | 63.68 | 55 | 12.8 | 22 |
| Dez. 6 | 40.57 | 31 | 63.6 | 15 | 56.28 | 40 | 53.4 | 3 | 37.83 | 43 | 16.2 | 1 | 64.23 | 50 | 15.0 | 28 |
| 16 | 40.88 | 29 | 62.1 | 14 | 56.68 | 36 | 53.1 | 0 | 38.26 | 40 | 16.1 | 2 | 64.73 | 43 | 17.8 | 33 |
| 26 | 41.17 | 26 | 60.7 | 13 | 57.04 | 33 | 53.1 | 3 | 38.66 | 35 | 16.3 | 6 | 65.16 | 34 | 21.1 | 35 |
| 36 | 41.43 | | 59.4 | | 57.37 | | 53.4 | | 39.01 | | 16.9 | | 65.50 | | 24.6 | |
| Mittl. Ort | 37.28 | | 70.0 | | 52.06 | | 68.6 | | 33.31 | | 32.8 | | 62.65 | | 26.6 | |
| | 337) | | | | 339) | | | | 341) | | | | 343) | | | |

| 1911 | $\sigma^2$ Ursae maj. $4^m.9$. AR. | | Dekl. + | | $\lambda$ Argus. $2^m.1$. AR. | | Dekl — | | $\vartheta$ Hydrae. $3^m.9$. AR. | | Dekl. + | | $\beta$ Argus. $1^m.7$. AR. | | Dekl. — | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $9^h\ 2^m$ | | $67^\circ\ 29'$ | | $9^h\ 4^m$ | | $43^\circ\ 4'$ | | $9^h\ 9^m$ | | $2^\circ\ 41'$ | | $9^h\ 12^m$ | | $69^\circ\ 20'$ | |
| Jan. 0 | 36.88 | 51 | 43.7 | 17 | 43.95 | 23 | 7.3 | 34 | 44.44 | 23 | 30.3 | 17 | 15.71 | 34 | 42.7 | 36 |
| 10 | 37.39 | 41 | 45.4 | 21 | 44.18 | 17 | 10.7 | 35 | 44.67 | 20 | 28.6 | 16 | 16.05 | 23 | 46.3 | 38 |
| 20 | 37.80 | 29 | 47.5 | 24 | 44.35 | 11 | 14.2 | 35 | 44.87 | 14 | 27.0 | 13 | 16.28 | 11 | 50.1 | 39 |
| 30 | 38.09 | 16 | 49.9 | 25 | 44.46 | 5 | 17.7 | 33 | 45.01 | 9 | 25.7 | 12 | 16.39 | 0 | 54.0 | 38 |
| Febr. 9 | 38.25 | 5 | 52.4 | 26 | 44.51 | 2 | 21.0 | 32 | 45.10 | 5 | 24.5 | 9 | 16.39 | 12 | 57.8 | 38 |
| 19 | 38.30 | 7 | 55.0 | 26 | 44.49 | 7 | 24.2 | 29 | 45.15 | 1 | 23.6 | 6 | 16.27 | 23 | 61.6 | 35 |
| März 1 | 38.23 | 18 | 57.6 | 25 | 44.42 | 12 | 27.1 | 26 | 45.14 | 4 | 23.0 | 5 | 16.04 | 32 | 65.1 | 33 |
| 11 | 38.05 | 28 | 60.1 | 22 | 44.30 | 16 | 29.7 | 22 | 45.10 | 8 | 22.5 | 2 | 15.72 | 41 | 68.4 | 29 |
| 21 | 37.77 | 34 | 62.3 | 19 | 44.14 | 19 | 31.9 | 18 | 45.02 | 11 | 22.3 | 1 | 15.31 | 47 | 71.3 | 25 |
| 31 | 37.43 | 40 | 64.2 | 15 | 43.95 | 22 | 33.7 | 13 | 44.91 | 12 | 22.2 | 1 | 14.84 | 52 | 73.8 | 21 |
| April 10 | 37.03 | 43 | 65.7 | 11 | 43.73 | 23 | 35.0 | 9 | 44.79 | 14 | 22.3 | 2 | 14.32 | 57 | 75.9 | 16 |
| 20 | 36.60 | 45 | 66.8 | 5 | 43.50 | 24 | 35.9 | 5 | 44.65 | 13 | 22.5 | 4 | 13.75 | 58 | 77.5 | 11 |
| 30 | 36.15 | 43 | 67.3 | 1 | 43.26 | 23 | 36.4 | 0 | 44.52 | 13 | 22.9 | 4 | 13.17 | 58 | 78.6 | 5 |
| Mai 10 | 35.72 | 41 | 67.4 | 4 | 43.03 | 22 | 36.4 | 5 | 44.39 | 12 | 23.3 | 5 | 12.59 | 58 | 79.1 | 0 |
| 20 | 35.31 | 36 | 67.0 | 9 | 42.81 | 20 | 35.9 | 9 | 44.27 | 9 | 23.8 | 6 | 12.01 | 55 | 79.1 | 6 |
| 30 | 34.95 | 31 | 66.1 | 14 | 42.61 | 18 | 35.0 | 13 | 44.18 | 8 | 24.4 | 7 | 11.46 | 51 | 78.5 | 10 |
| Juni 9 | 34.64 | 24 | 64.7 | 17 | 42.43 | 15 | 33.7 | 17 | 44.10 | 6 | 25.1 | 7 | 10.95 | 47 | 77.5 | 15 |
| 19 | 34.40 | 17 | 63.0 | 21 | 42.28 | 12 | 32.0 | 19 | 44.04 | 3 | 25.8 | 7 | 10.48 | 41 | 76.0 | 20 |
| 29 | 34.23 | 9 | 60.9 | 23 | 42.16 | 8 | 30.1 | 24 | 44.01 | 0 | 26.5 | 7 | 10.07 | 33 | 74.0 | 24 |
| Juli 9 | 34.14 | 0 | 58.6 | 26 | 42.08 | 4 | 27.7 | 25 | 44.01 | 2 | 27.2 | 7 | 9.74 | 25 | 71.6 | 27 |
| 19 | 34.14 | 8 | 56.0 | 28 | 42.04 | 0 | 25.2 | 26 | 44.03 | 5 | 27.9 | 7 | 9.49 | 17 | 68.9 | 29 |
| 29 | 34.22 | 18 | 53.2 | 31 | 42.04 | 4 | 22.6 | 29 | 44.08 | 8 | 28.6 | 6 | 9.32 | 7 | 66.0 | 31 |
| Aug. 8 | 34.40 | 24 | 50.1 | 30 | 42.08 | 9 | 19.7 | 27 | 44.16 | 12 | 29.2 | 4 | 9.25 | 5 | 62.9 | 33 |
| 18 | 34.64 | 33 | 47.1 | 29 | 42.17 | 13 | 17.0 | 24 | 44.28 | 13 | 29.6 | 3 | 9.30 | 14 | 59.6 | 32 |
| 28 | 34.97 | 40 | 44.2 | 29 | 42.30 | 18 | 14.6 | 23 | 44.41 | 17 | 29.9 | 1 | 9.44 | 25 | 56.4 | 29 |
| Sept. 7 | 35.37 | 47 | 41.3 | 27 | 42.48 | 22 | 12.3 | 19 | 44.58 | 19 | 30.0 | 1 | 9.69 | 35 | 53.5 | 26 |
| 17 | 35.84 | 54 | 38.6 | 26 | 42.70 | 26 | 10.4 | 15 | 44.77 | 23 | 29.9 | 4 | 10.04 | 44 | 50.9 | 21 |
| 27 | 36.38 | 60 | 36.0 | 24 | 42.96 | 30 | 8.9 | 9 | 45.00 | 25 | 29.5 | 7 | 10.48 | 52 | 48.8 | 17 |
| Okt. 7 | 36.98 | 65 | 33.6 | 21 | 43.26 | 33 | 8.0 | 5 | 45.25 | 27 | 28.8 | 9 | 11.00 | 60 | 47.1 | 11 |
| 17 | 37.63 | 69 | 31.5 | 17 | 43.59 | 36 | 7.5 | 2 | 45.52 | 30 | 27.9 | 12 | 11.60 | 64 | 46.0 | 5 |
| 27 | 38.32 | 72 | 29.8 | 14 | 43.95 | 38 | 7.7 | 7 | 45.82 | 31 | 26.7 | 15 | 12.24 | 68 | 45.5 | 1 |
| Nov. 6 | 39.04 | 75 | 28.4 | 9 | 44.33 | 39 | 8.4 | 14 | 46.13 | 33 | 25.2 | 16 | 12.92 | 69 | 45.6 | 9 |
| 16 | 39.79 | 75 | 27.5 | 5 | 44.72 | 39 | 9.8 | 19 | 46.46 | 33 | 23.6 | 18 | 13.61 | 67 | 46.5 | 15 |
| 26 | 40.54 | 73 | 27.0 | 0 | 45.11 | 37 | 11.7 | 24 | 46.79 | 33 | 21.8 | 19 | 14.28 | 64 | 48.0 | 21 |
| Dez. 6 | 41.27 | 69 | 27.0 | 5 | 45.48 | 34 | 14.1 | 28 | 47.12 | 31 | 19.9 | 20 | 14.92 | 57 | 50.1 | 27 |
| 16 | 41.96 | 63 | 27.5 | 11 | 45.82 | 31 | 16.9 | 31 | 47.43 | 29 | 17.9 | 19 | 15.49 | 50 | 52.8 | 31 |
| 26 | 42.59 | 56 | 28.6 | 14 | 46.13 | 26 | 20.0 | 34 | 47.72 | 25 | 16.0 | 17 | 15.99 | 40 | 55.9 | 34 |
| 36 | 43.15 | | 30.0 | | 46.39 | | 23.4 | | 47.97 | | 14.3 | | 16.39 | | 59.3 | |
| Mittl. Ort | 34.63 | | 48.1 | | 43.25 | | 22.2 | | 44.10 | | 24.8 | | 13.66 | | 61.7 | |
| | 344) | | | | 345) | | | | 347) | | | | 348) | | | |

| 1911 | 83 Cancri. 6ᵐ.7. AR. | | Dekl. + | | 40 Lyncis. 3ᵐ2. AR. | | Dekl. + | | κ Argus. 2ᵐ.5. AR. | | Dekl. − | | α Hydrae. 2ᵐ.0. AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9ʰ 14ᵐ | | 18° 4′ | | 9ʰ 15ᵐ | | 34° 45′ | | 9ʰ 19ᵐ | | 54° 37′ | | 9ʰ 23ᵐ | | 8° 16′ | |
| Jan. 0 | 1.38ˢ | 26 | 61.4″ | 9 | 38.82ˢ | 29 | 68.7″ | 0 | 22.30ˢ | 28 | 31.4″ | 35 | 13.14ˢ | 24 | 12.6″ | 23 |
| 10 | 1.64 | 20 | 60.5 | 7 | 39.11 | 24 | 68.7 | 3 | 22.58 | 20 | 34.9 | 37 | 13.38 | 20 | 14.9 | 22 |
| 20 | 1.84 | 16 | 59.8 | 4 | 39.35 | 19 | 69.0 | 6 | 22.78 | 13 | 38.6 | 38 | 13.58 | 15 | 17.1 | 20 |
| 30 | 2.00 | 11 | 59.4 | 1 | 39.54 | 12 | 69.6 | 8 | 22.91 | 5 | 42.4 | 37 | 13.73 | 10 | 19.1 | 18 |
| Febr. 9 | 2.11 | 6 | 59.3 | 0 | 39.66 | 7 | 70.4 | 11 | 22.96 | 2 | 46.1 | 35 | 13.83 | 5 | 20.9 | 15 |
| 19 | 2.17 | 1 | 59.3 | 2 | 39.73 | 0 | 71.5 | 12 | 22.94 | 9 | 49.6 | 34 | 13.88 | 0 | 22.4 | 13 |
| März 1 | 2.18 | 4 | 59.5 | 4 | 39.73 | 5 | 72.7 | 12 | 22.85 | 15 | 53.0 | 30 | 13.88 | 4 | 23.7 | 11 |
| 11 | 2.14 | 8 | 59.9 | 5 | 39.68 | 9 | 73.9 | 13 | 22.70 | 21 | 56.0 | 27 | 13.84 | 7 | 24.8 | 8 |
| 21 | 2.06 | 10 | 60.4 | 6 | 39.59 | 12 | 75.2 | 12 | 22.49 | 24 | 58.7 | 23 | 13.77 | 10 | 25.6 | 6 |
| 31 | 1.96 | 13 | 61.0 | 6 | 39.47 | 15 | 76.4 | 11 | 22.25 | 28 | 61.0 | 18 | 13.67 | 13 | 26.2 | 3 |
| April 10 | 1.83 | 14 | 61.6 | 6 | 39.32 | 17 | 77.5 | 9 | 21.97 | 31 | 62.8 | 14 | 13.54 | 13 | 26.5 | 1 |
| 20 | 1.69 | 14 | 62.2 | 5 | 39.15 | 17 | 78.4 | 7 | 21.66 | 31 | 64.2 | 8 | 13.41 | 14 | 26.6 | 1 |
| 30 | 1.55 | 13 | 62.7 | 5 | 38.98 | 16 | 79.1 | 5 | 21.35 | 31 | 65.0 | 4 | 13.27 | 13 | 26.5 | 4 |
| Mai 10 | 1.42 | 13 | 63.2 | 5 | 38.82 | 15 | 79.6 | 2 | 21.04 | 31 | 65.4 | 2 | 13.14 | 12 | 26.1 | 5 |
| 20 | 1.29 | 10 | 63.7 | 3 | 38.67 | 13 | 79.8 | 1 | 20.73 | 29 | 65.2 | 6 | 13.02 | 11 | 25.6 | 7 |
| 30 | 1.19 | 8 | 64.0 | 3 | 38.54 | 11 | 79.9 | 3 | 20.44 | 26 | 64.6 | 11 | 12.91 | 9 | 24.9 | 8 |
| Juni 9 | 1.11 | 6 | 64.3 | 2 | 38.43 | 7 | 79.6 | 4 | 20.18 | 24 | 63.5 | 16 | 12.82 | 7 | 24.1 | 10 |
| 19 | 1.05 | 3 | 64.5 | 1 | 38.36 | 5 | 79.2 | 6 | 19.94 | 20 | 61.9 | 19 | 12.75 | 5 | 23.1 | 11 |
| 29 | 1.02 | 1 | 64.6 | 0 | 38.31 | 1 | 78.6 | 8 | 19.74 | 16 | 60.0 | 23 | 12.70 | 2 | 22.0 | 12 |
| Juli 9 | 1.01 | 3 | 64.6 | 1 | 38.30 | 3 | 77.8 | 10 | 19.58 | 11 | 57.7 | 26 | 12.68 | 0 | 20.8 | 12 |
| 19 | 1.04 | 6 | 64.5 | 3 | 38.33 | 5 | 76.8 | 12 | 19.47 | 6 | 55.1 | 28 | 12.68 | 3 | 19.6 | 12 |
| 29 | 1.10 | 8 | 64.2 | 3 | 38.38 | 9 | 75.6 | 13 | 19.41 | 1 | 52.3 | 29 | 12.71 | 6 | 18.4 | 11 |
| Aug. 8 | 1.18 | 12 | 63.9 | 5 | 38.47 | 15 | 74.3 | 16 | 19.40 | 6 | 49.4 | 32 | 12.77 | 10 | 17.3 | 12 |
| 18 | [9] 1.30 | 15 | 63.4 | 6 | [9] 38.62 | 16 | 72.7 | 15 | [10] 19.46 | 12 | 46.2 | 28 | [11] 12.87 | 11 | 16.1 | 9 |
| 28 | 1.45 | 17 | 62.8 | 8 | 38.78 | 19 | 71.2 | 17 | 19.58 | 17 | 43.4 | 26 | 12.98 | 15 | 15.2 | 6 |
| Sept. 7 | 1.62 | 20 | 62.0 | 9 | 38.97 | 23 | 69.5 | 17 | 19.75 | 24 | 40.8 | 23 | 13.13 | 18 | 14.6 | 5 |
| 17 | 1.82 | 24 | 61.1 | 11 | 39.20 | 27 | 67.8 | 18 | 19.99 | 29 | 38.5 | 19 | 13.31 | 21 | 14.1 | 0 |
| 27 | 2.06 | 26 | 60.0 | 13 | 39.47 | 29 | 66.0 | 18 | 20.28 | 34 | 36.6 | 15 | 13.52 | 24 | 14.1 | 2 |
| Okt. 7 | 2.32 | 28 | 58.7 | 14 | 39.76 | 33 | 64.2 | 18 | 20.62 | 39 | 35.1 | 8 | 13.76 | 26 | 14.3 | 6 |
| 17 | 2.60 | 31 | 57.3 | 15 | 40.09 | 35 | 62.4 | 18 | 21.01 | 42 | 34.3 | 3 | 14.02 | 29 | 14.9 | 9 |
| 27 | 2.91 | 33 | 55.8 | 16 | 40.44 | 37 | 60.6 | 16 | 21.43 | 45 | 34.0 | 4 | 14.31 | 31 | 15.8 | 13 |
| Nov. 6 | 3.24 | 34 | 54.2 | 16 | 40.81 | 39 | 59.0 | 16 | 21.88 | 46 | 34.4 | 10 | 14.62 | 33 | 17.1 | 16 |
| 16 | 3.58 | 35 | 52.6 | 16 | 41.20 | 39 | 57.4 | 14 | 22.34 | 46 | 35.4 | 17 | 14.95 | 33 | 18.7 | 19 |
| 26 | 3.93 | 35 | 51.0 | 16 | 41.59 | 39 | 56.0 | 11 | 22.80 | 45 | 37.1 | 22 | 15.28 | 32 | 20.6 | 21 |
| Dez. 6 | 4.28 | 33 | 49.4 | 14 | 41.98 | 38 | 54.9 | 8 | 23.25 | 41 | 39.3 | 27 | 15.60 | 32 | 22.7 | 22 |
| 16 | 4.61 | 31 | 48.0 | 13 | 42.36 | 35 | 54.1 | 6 | 23.66 | 37 | 42.0 | 31 | 15.92 | 29 | 24.9 | 23 |
| 26 | 4.92 | 28 | 46.7 | 11 | 42.71 | 31 | 53.5 | 2 | 24.03 | 31 | 45.1 | 35 | 16.21 | 26 | 27.2 | 23 |
| 36 | 5.20 | | 45.6 | | 43.02 | | 53.3 | | 24.34 | | 48.6 | | 16.47 | | 29.5 | |
| Mittl. Ort | 0.98 | | 59.4 | | 38.22 | | 69.9 | | 21.39 | | 48.9 | | 12.86 | | 20.6 | |
| | 350) | | | | 352) | | | | 353) | | | | 354) | | | |

| 1911 | *h* Ursae maj. $3^m.5$. AR. | | Dekl. + | | *d* Ursae maj. $4^m.5$. AR. | | Dekl. + | | ϑ Ursae maj. $3^m.1$. AR. | | Dekl. + | | ψ Argus. $3^m.6$. AR. | | Dekl. — | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $9^h\ 24^m$ | | 63° 26′ | | $9^h\ 26^m$ | | 70° 12′ | | $9^h\ 26^m$ | | 52° 4′ | | $9^h\ 27^m$ | | 40° 4′ | |
| Jan. 0 | 33.24 | 48 | 60.5 | 13 | 40.46 | 61 | 74.0 | 16 | 55.75 | 38 | 56.1 | 8 | 12.08 | 26 | 20.7 | 33 |
| 10 | 33.72 | 40 | 61.8 | 17 | 41.07 | 50 | 75.6 | 20 | 56.13 | 32 | 56.9 | 12 | 12.34 | 20 | 24.0 | 34 |
| 20 | 34.12 | 31 | 63.5 | 21 | 41.57 | 38 | 77.6 | 23 | 56.45 | 24 | 58.1 | 15 | 12.54 | 14 | 27.4 | 35 |
| 30 | 34.43 | 20 | 65.6 | 23 | 41.95 | 25 | 79.9 | 26 | 56.69 | 17 | 59.6 | 17 | 12.68 | 8 | 30.9 | 33 |
| Febr. 9 | 34.63 | 9 | 67.9 | 25 | 42.20 | 11 | 82.5 | 27 | 56.86 | 8 | 61.3 | 20 | 12.76 | 2 | 34.2 | 31 |
| 19 | 34.72 | 0 | 70.4 | 25 | 42.31 | 3 | 85.2 | 28 | 56.94 | 1 | 63.3 | 20 | 12.78 | 3 | 37.3 | 29 |
| März 1 | 34.72 | 11 | 72.9 | 25 | 42.28 | 15 | 88.0 | 26 | 56.95 | 6 | 65.3 | 21 | 12.75 | 8 | 40.2 | 26 |
| 11 | 34.61 | 19 | 75.4 | 22 | 42.13 | 26 | 90.6 | 25 | 56.89 | 12 | 67.4 | 19 | 12.67 | 13 | 42.8 | 23 |
| 21 | 34.42 | 25 | 77.6 | 20 | 41.87 | 36 | 93.1 | 22 | 56.77 | 18 | 69.3 | 18 | 12.54 | 16 | 45.1 | 19 |
| 31 | 34.17 | 31 | 79.6 | 17 | 41.51 | 42 | 95.3 | 17 | 56.59 | 21 | 71.1 | 15 | 12.38 | 18 | 47.0 | 14 |
| April 10 | 33.86 | 35 | 81.3 | 13 | 41.09 | 48 | 97.0 | 13 | 56.38 | 23 | 72.6 | 12 | 12.20 | 20 | 48.4 | 11 |
| 20 | 33.51 | 36 | 82.6 | 8 | 40.61 | 50 | 98.3 | 9 | 56.15 | 25 | 73.8 | 9 | 12.00 | 21 | 49.5 | 6 |
| 30 | 33.15 | 36 | 83.4 | 4 | 40.11 | 51 | 99.2 | 3 | 55.90 | 24 | 74.7 | 5 | 11.79 | 21 | 50.1 | 2 |
| Mai 10 | 32.79 | 35 | 83.8 | 1 | 39.60 | 49 | 99.5 | 2 | 55.66 | 24 | 75.2 | 1 | 11.58 | 20 | 50.3 | 3 |
| 20 | 32.44 | 32 | 83.7 | 5 | 39.11 | 45 | 99.3 | 7 | 55.42 | 20 | 75.3 | 3 | 11.38 | 20 | 50.0 | 6 |
| 30 | 32.12 | 27 | 83.2 | 10 | 38.66 | 39 | 98.6 | 12 | 55.22 | 18 | 75.0 | 7 | 11.18 | 16 | 49.4 | 11 |
| Juni 9 | 31.85 | 22 | 82.2 | 14 | 38.27 | 33 | 97.4 | 16 | 55.04 | 14 | 74.3 | 10 | 11.02 | 15 | 48.3 | 15 |
| 19 | 31.63 | 17 | 80.8 | 18 | 37.94 | 26 | 95.8 | 19 | 54.90 | 11 | 73.3 | 13 | 10.87 | 12 | 46.8 | 17 |
| 29 | 31.46 | 10 | 79.0 | 21 | 37.68 | 17 | 93.9 | 23 | 54.79 | 5 | 72.0 | 16 | 10.75 | 9 | 45.1 | 21 |
| Juli 9 | 31.36 | 4 | 76.9 | 23 | 37.51 | 9 | 91.6 | 26 | 54.74 | 1 | 70.4 | 19 | 10.66 | 6 | 43.0 | 23 |
| 19 | 31.32 | 3 | 74.6 | 26 | 37.42 | 1 | 89.0 | 29 | 54.73 | 3 | 68.5 | 21 | 10.60 | 2 | 40.7 | 24 |
| 29 | 31.35 | 10 | 72.0 | 28 | 37.43 | 11 | 86.1 | 31 | 54.76 | 9 | 66.4 | 22 | 10.58 | 2 | 38.3 | 25 |
| Aug. 8 | 31.45 | 18 | 69.2 | 31 | 37.54 | 20 | 83.0 | 34 | 54.85 | 14 | 64.2 | 26 | 10.60 | 6 | 35.8 | 28 |
| 18 | [12] 31.63 | 24 | 66.1 | 29 | [12] 37.74 | 28 | 79.6 | 31 | [12] 54.99 | 18 | 61.6 | 25 | [12] 10.66 | 10 | 33.0 | 24 |
| 28 | 31.87 | 31 | 63.2 | 29 | 38.02 | 38 | 76.5 | 31 | 55.17 | 23 | 59.1 | 25 | 10.76 | 15 | 30.6 | 21 |
| Sept. 7 | 32.18 | 36 | 60.3 | 29 | 38.40 | 46 | 73.4 | 31 | 55.40 | 27 | 56.6 | 26 | 10.91 | 19 | 28.5 | 19 |
| 17 | 32.54 | 43 | 57.4 | 27 | 38.86 | 54 | 70.3 | 29 | 55.67 | 32 | 54.0 | 24 | 11.10 | 24 | 26.6 | 15 |
| 27 | 32.97 | 49 | 54.7 | 26 | 39.40 | 61 | 67.4 | 27 | 55.99 | 36 | 51.6 | 24 | 11.34 | 27 | 25.1 | 10 |
| Okt. 7 | 33.46 | 53 | 52.1 | 24 | 40.01 | 69 | 64.7 | 24 | 56.35 | 41 | 49.2 | 23 | 11.61 | 31 | 24.1 | 5 |
| 17 | 33.99 | 59 | 49.7 | 20 | 40.70 | 74 | 62.3 | 20 | 56.76 | 43 | 46.9 | 21 | 11.92 | 34 | 23.6 | 0 |
| 27 | 34.58 | 61 | 47.7 | 17 | 41.44 | 78 | 60.3 | 17 | 57.19 | 47 | 44.8 | 18 | 12.26 | 36 | 23.6 | 6 |
| Nov. 6 | 35.19 | 65 | 46.0 | 13 | 42.22 | 82 | 58.6 | 13 | 57.66 | 49 | 43.0 | 15 | 12.62 | 38 | 24.2 | 12 |
| 16 | 35.84 | 65 | 44.7 | 9 | 43.04 | 83 | 57.3 | 8 | 58.15 | 49 | 41.5 | 11 | 13.00 | 38 | 25.4 | 18 |
| 26 | 36.49 | 65 | 43.8 | 4 | 43.87 | 82 | 56.5 | 2 | 58.64 | 50 | 40.4 | 8 | 13.38 | 37 | 27.2 | 22 |
| Dez. 6 | 37.14 | 62 | 43.4 | 1 | 44.69 | 79 | 56.3 | 3 | 59.14 | 48 | 39.6 | 4 | 13.75 | 36 | 29.4 | 26 |
| 16 | 37.76 | 58 | 43.5 | 6 | 45.48 | 74 | 56.6 | 8 | 59.62 | 45 | 39.2 | 1 | 14.11 | 32 | 32.0 | 31 |
| 26 | 38.34 | 52 | 44.1 | 10 | 46.22 | 66 | 57.4 | 13 | 60.07 | 41 | 39.3 | 5 | 14.43 | 28 | 35.1 | 32 |
| 36 | 38.86 | | 45.1 | | 46.88 | | 58.7 | | 60.48 | | 39.8 | | 14.71 | | 38.3 | |
| Mittl. Ort | 31.51 | | 66.0 | | 37.94 | | 80.2 | | 54.72 | | 60.6 | | 11.60 | | 36.0 | |
| | 355) | | | | 357) | | | | 358) | | | | 359) | | | |

| 1911 | 10 Leon. min. $4^m.6$. AR. | | Dekl. + | | ϑ Antliae. $5^m.0$. AR. | | Dekl. − | | ε Leonis. $3^m.0$. AR. | | Dekl. + | | υ Ursae maj. $3^m.8$. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $9^h 28^m$ | | 36° 47′ | | $9^h 40^m$ | | 27° 21′ | | $9^h 40^m$ | | 24° 10′ | | $9^h 44^m$ | | 59° 27′ | |
| Jan. 0 | 47.12 | 31 | 33.4 | 0 | 14.28 | 25 | 29.1 | 30 | 48.49 | 29 | 64.0 | 7 | 41.61 | 47 | 22.0 | 9 |
| 10 | 47.43 | 27 | 33.4 | 4 | 14.53 | 21 | 32.1 | 30 | 48.78 | 25 | 63.3 | 4 | 42.08 | 39 | 22.9 | 14 |
| 20 | 47.70 | 20 | 33.8 | 7 | 14.74 | 16 | 35.1 | 29 | 49.03 | 19 | 62.9 | 2 | 42.47 | 31 | 24.3 | 18 |
| 30 | 47.90 | 14 | 34.5 | 9 | 14.90 | 11 | 38.0 | 28 | 49.22 | 14 | 62.7 | 2 | 42.78 | 22 | 26.1 | 21 |
| Febr. 9 | 48.04 | 8 | 35.4 | 11 | 15.01 | 5 | 40.8 | 27 | 49.36 | 9 | 62.9 | 3 | 43.00 | 12 | 28.2 | 23 |
| 19 | 48.12 | 2 | 36.5 | 13 | 15.06 | 1 | 43.5 | 23 | 49.45 | 4 | 63.2 | 6 | 43.12 | 4 | 30.5 | 23 |
| März 1 | 48.14 | 3 | 37.8 | 14 | 15.07 | 5 | 45.8 | 22 | 49.49 | 2 | 63.8 | 8 | 43.16 | 5 | 32.8 | 24 |
| 11 | 48.11 | 8 | 39.2 | 14 | 15.02 | 8 | 48.0 | 18 | 49.47 | 6 | 64.6 | 8 | 43.11 | 13 | 35.2 | 23 |
| 21 | 48.03 | 12 | 40.6 | 14 | 14.94 | 11 | 49.8 | 14 | 49.41 | 8 | 65.4 | 9 | 42.98 | 20 | 37.5 | 21 |
| 31 | 47.91 | 14 | 42.0 | 12 | 14.83 | 13 | 51.2 | 12 | 49.33 | 12 | 66.3 | 9 | 42.78 | 24 | 39.6 | 18 |
| April 10 | 47.77 | 17 | 43.2 | 10 | 14.70 | 16 | 52.4 | 7 | 49.21 | 13 | 67.2 | 8 | 42.54 | 28 | 41.4 | 15 |
| 20 | 47.60 | 17 | 44.2 | 8 | 14.54 | 16 | 53.1 | 5 | 49.08 | 14 | 68.0 | 8 | 42.26 | 30 | 42.9 | 10 |
| 30 | 47.43 | 17 | 45.0 | 6 | 14.38 | 16 | 53.6 | 0 | 48.94 | 14 | 68.8 | 6 | 41.96 | 31 | 43.9 | 7 |
| Mai 10 | 47.26 | 15 | 45.6 | 3 | 14.22 | 15 | 53.6 | 3 | 48.80 | 13 | 69.4 | 5 | 41.65 | 30 | 44.6 | 2 |
| 20 | 47.11 | 14 | 45.9 | 1 | 14.07 | 14 | 53.3 | 6 | 48.67 | 12 | 69.9 | 3 | 41.35 | 28 | 44.8 | 3 |
| 30 | 46.97 | 12 | 46.0 | 2 | 13.93 | 13 | 52.7 | 9 | 48.55 | 10 | 70.2 | 2 | 41.07 | 25 | 44.5 | 7 |
| Juni 9 | 46.85 | 9 | 45.8 | 4 | 13.80 | 11 | 51.8 | 13 | 48.45 | 7 | 70.4 | 1 | 40.82 | 21 | 43.8 | 11 |
| 19 | 46.76 | 6 | 45.4 | 7 | 13.69 | 9 | 50.5 | 14 | 48.38 | 5 | 70.5 | 1 | 40.61 | 16 | 42.7 | 15 |
| 29 | 46.70 | 2 | 44.7 | 9 | 13.60 | 6 | 49.1 | 17 | 48.33 | 3 | 70.4 | 4 | 40.45 | 11 | 41.2 | 18 |
| Juli 9 | 46.68 | 1 | 43.8 | 11 | 13.54 | 4 | 47.4 | 19 | 48.30 | 0 | 70.0 | 4 | 40.34 | 6 | 39.4 | 21 |
| 19 | 46.69 | 4 | 42.7 | 13 | 13.50 | 0 | 45.5 | 19 | 48.30 | 3 | 69.6 | 5 | 40.28 | 0 | 37.3 | 24 |
| 29 | 46.73 | 8 | 41.4 | 14 | 13.50 | 2 | 43.6 | 20 | 48.33 | 6 | 69.1 | 8 | 40.28 | 5 | 34.9 | 26 |
| Aug. 8 | 46.81 | 12 | 40.0 | 17 | 13.52 | 6 | 41.6 | 22 | 48.39 | 10 | 68.3 | 9 | 40.33 | 12 | 32.3 | 30 |
| 18 | [13] 46.93 | 16 | 38.3 | 18 | [16] 13.58 | 10 | 39.4 | 19 | [16] 48.49 | 12 | 67.4 | 11 | [17] 40.45 | 18 | 29.3 | 28 |
| 28 | 47.09 | 18 | 36.5 | 18 | 13.68 | 13 | 37.5 | 16 | 48.61 | 16 | 66.3 | 12 | 40.63 | 23 | 26.5 | 29 |
| Sept. 7 | 47.27 | 22 | 34.7 | 19 | 13.81 | 16 | 35.9 | 14 | 48.77 | 18 | 65.1 | 13 | 40.86 | 29 | 23.6 | 29 |
| 17 | 47.49 | 26 | 32.8 | 19 | 13.97 | 20 | 34.5 | 10 | 48.95 | 22 | 63.8 | 15 | 41.15 | 34 | 20.7 | 29 |
| 27 | 47.75 | 29 | 30.9 | 20 | 14.17 | 24 | 33.5 | 6 | 49.17 | 25 | 62.3 | 16 | 41.49 | 40 | 17.8 | 27 |
| Okt. 7 | 48.04 | 32 | 28.9 | 20 | 14.41 | 27 | 32.9 | 2 | 49.42 | 28 | 60.7 | 18 | 41.89 | 45 | 15.1 | 25 |
| 17 | 48.36 | 35 | 26.9 | 19 | 14.68 | 30 | 32.7 | 4 | 49.70 | 30 | 58.9 | 18 | 42.34 | 50 | 12.6 | 23 |
| 27 | 48.71 | 37 | 25.0 | 18 | 14.98 | 33 | 33.1 | 8 | 50.00 | 33 | 57.1 | 18 | 42.84 | 54 | 10.3 | 21 |
| Nov. 6 | 49.08 | 40 | 23.2 | 17 | 15.31 | 34 | 33.9 | 13 | 50.33 | 35 | 55.3 | 18 | 43.38 | 56 | 8.2 | 17 |
| 16 | 49.48 | 40 | 21.5 | 14 | 15.65 | 35 | 35.2 | 18 | 50.68 | 36 | 53.5 | 17 | 43.94 | 58 | 6.5 | 12 |
| 26 | 49.88 | 40 | 20.1 | 12 | 16.00 | 35 | 37.0 | 22 | 51.04 | 37 | 51.8 | 16 | 44.52 | 58 | 5.3 | 8 |
| Dez. 6 | 50.28 | 39 | 18.9 | 9 | 16.35 | 34 | 39.2 | 25 | 51.41 | 35 | 50.2 | 14 | 45.10 | 57 | 4.5 | 3 |
| 16 | 50.67 | 37 | 18.0 | 6 | 16.69 | 31 | 41.7 | 27 | 51.76 | 34 | 48.8 | 12 | 45.67 | 54 | 4.2 | 2 |
| 26 | 51.04 | 33 | 17.4 | 2 | 17.00 | 27 | 44.4 | 30 | 52.10 | 31 | 47.6 | 9 | 46.21 | 49 | 4.4 | 7 |
| 36 | 51.37 | | 17.2 | | 17.27 | | 47.4 | | 52.41 | | 46.7 | | 46.70 | | 5.1 | |
| Mittl. Ort | 46.53 | | 35.6 | | 14.02 | | 41.9 | | 48.13 | | 64.1 | | 40.28 | | 28.5 | |
| | 360) | | | | 366) | | | | 367) | | | | 368) | | | |

| 1911 | υ Argus. 3m.0. AR. | | Dekl. — | | 6 Sextantis. 6m.2. AR. | | Dekl. — | | Gr. 1586. 6m.3. AR. | | Dekl. + | | π Leonis. 4m.9. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9h 44m | | 64° 39′ | | 9h 46m | | 3° 49′ | | 9h 50m | | 73° 17′ | | 9h 55m | | 8° 28′ | |
| Jan. 0 | 53.78 | 37 | 11.8 | 35 | 45.15 | 26 | 26.4 | 21 | 29.93 | 75 | 63.9 | 15 | 30.88 | 27 | 21.2 | 16 |
| 10 | 54.15 | 29 | 15.3 | 37 | 45.41 | 22 | 28.5 | 20 | 30.68 | 63 | 65.4 | 19 | 31.15 | 24 | 19.6 | 14 |
| 20 | 54.44 | 20 | 19.0 | 38 | 45.63 | 17 | 30.5 | 18 | 31.31 | 51 | 67.3 | 23 | 31.39 | 19 | 18.2 | 11 |
| 30 | 54.64 | 9 | 22.8 | 39 | 45.80 | 13 | 32.3 | 16 | 31.82 | 35 | 69.6 | 26 | 31.58 | 15 | 17.1 | 9 |
| Febr. 9 | 54.73 | 0 | 26.7 | 38 | 45.93 | 8 | 33.9 | 14 | 32.17 | 19 | 72.2 | 28 | 31.73 | 9 | 16.2 | 6 |
| 19 | 54.73 | 9 | 30.5 | 37 | 46.01 | 3 | 35.3 | 11 | 32.36 | 3 | 75.0 | 28 | 31.82 | 4 | 15.6 | 4 |
| März 1 | 54.64 | 17 | 34.2 | 36 | 46.04 | 2 | 36.4 | 8 | 32.39 | 11 | 77.8 | 28 | 31.86 | 0 | 15.2 | 2 |
| 11 | 54.47 | 25 | 37.8 | 30 | 46.02 | 5 | 37.2 | 7 | 32.28 | 26 | 80.6 | 27 | 31.86 | 4 | 15.0 | 1 |
| 21 | 54.22 | 31 | 40.8 | 28 | 45.97 | 8 | 37.9 | 4 | 32.02 | 37 | 83.3 | 23 | 31.82 | 7 | 15.1 | 2 |
| 31 | 53.91 | 37 | 43.6 | 23 | 45.89 | 10 | 38.3 | 2 | 31.65 | 46 | 85.6 | 20 | 31.75 | 9 | 15.3 | 3 |
| April 10 | 53.54 | 40 | 45.9 | 19 | 45.79 | 12 | 38.5 | 0 | 31.19 | 54 | 87.6 | 16 | 31.66 | 11 | 15.6 | 4 |
| 20 | 53.14 | 42 | 47.8 | 15 | 45.67 | 12 | 38.5 | 2 | 30.65 | 59 | 89.2 | 11 | 31.55 | 12 | 16.0 | 5 |
| 30 | 52.72 | 44 | 49.3 | 9 | 45.55 | 13 | 38.3 | 3 | 30.06 | 60 | 90.3 | 6 | 31.43 | 13 | 16.5 | 5 |
| Mai 10 | 52.28 | 44 | 50.2 | 4 | 45.42 | 11 | 38.0 | 5 | 29.46 | 60 | 90.9 | 0 | 31.30 | 11 | 17.0 | 5 |
| 20 | 51.84 | 44 | 50.6 | 2 | 45.31 | 11 | 37.5 | 6 | 28.86 | 57 | 90.9 | 4 | 31.19 | 11 | 17.5 | 5 |
| 30 | 51.40 | 41 | 50.4 | 7 | 45.20 | 9 | 36.9 | 7 | 28.29 | 52 | 90.5 | 10 | 31.08 | 9 | 18.0 | 6 |
| Juni 9 | 50.99 | 38 | 49.7 | 11 | 45.11 | 8 | 36.2 | 8 | 27.77 | 46 | 89.5 | 15 | 30.99 | 8 | 18.6 | 5 |
| 19 | 50.61 | 35 | 48.6 | 17 | 45.03 | 6 | 35.4 | 9 | 27.31 | 38 | 88.0 | 19 | 30.91 | 5 | 19.1 | 5 |
| 29 | 50.26 | 29 | 46.9 | 20 | 44.97 | 3 | 34.5 | 9 | 26.93 | 29 | 86.1 | 23 | 30.86 | 3 | 19.6 | 4 |
| Juli 9 | 49.97 | 24 | 44.9 | 24 | 44.94 | 1 | 33.6 | 9 | 26.64 | 19 | 83.8 | 26 | 30.83 | 1 | 20.0 | 3 |
| 19 | 49.73 | 17 | 42.5 | 27 | 44.93 | 2 | 32.7 | 9 | 26.45 | 10 | 81.2 | 29 | 30.82 | 1 | 20.3 | 3 |
| 29 | 49.56 | 10 | 39.8 | 30 | 44.95 | 4 | 31.8 | 9 | 26.35 | 2 | 78.3 | 31 | 30.83 | 4 | 20.6 | 1 |
| Aug. 8 | 49.46 | 2 | 36.8 | 33 | 44.99 | 6 | 30.9 | 8 | 26.37 | 12 | 75.2 | 33 | 30.87 | 6 | 20.7 | 0 |
| 18 | [17] 49.44 | 7 | 33.5 | 30 | [18] 45.05 | 11 | 30.1 | 6 | [18] 26.49 | 26 | 71.9 | 36 | [20] 30.93 | 10 | 20.7 | 1 |
| 28 | 49.51 | 15 | 30.5 | 29 | 45.16 | 13 | 29.5 | 4 | 26.75 | 35 | 68.3 | 34 | 31.03 | 13 | 20.6 | 3 |
| Sept. 7 | 49.66 | 24 | 27.6 | 26 | 45.29 | 15 | 29.1 | 1 | 27.10 | 45 | 64.9 | 32 | 31.16 | 15 | 20.3 | 6 |
| 17 | 49.90 | 32 | 25.0 | 23 | 45.44 | 19 | 29.0 | 1 | 27.55 | 55 | 61.7 | 32 | 31.31 | 19 | 19.7 | 7 |
| 27 | 50.22 | 40 | 22.7 | 19 | 45.63 | 22 | 29.1 | 4 | 28.10 | 64 | 58.5 | 30 | 31.50 | 22 | 19.0 | 10 |
| Okt. 7 | 50.62 | 47 | 20.8 | 14 | 45.85 | 26 | 29.5 | 8 | 28.74 | 72 | 55.5 | 27 | 31.72 | 25 | 18.0 | 13 |
| 17 | 51.09 | 53 | 19.4 | 7 | 46.11 | 28 | 30.3 | 10 | 29.46 | 81 | 52.8 | 24 | 31.97 | 28 | 16.7 | 14 |
| 27 | 51.62 | 56 | 18.7 | 2 | 46.39 | 30 | 31.3 | 14 | 30.27 | 87 | 50.4 | 20 | 32.25 | 30 | 15.3 | 16 |
| Nov. 6 | 52.18 | 59 | 18.5 | 6 | 46.69 | 32 | 32.7 | 16 | 31.14 | 92 | 48.4 | 16 | 32.55 | 32 | 13.7 | 18 |
| 16 | 52.77 | 59 | 19.1 | 11 | 47.01 | 33 | 34.3 | 19 | 32.06 | 95 | 46.8 | 11 | 32.87 | 34 | 11.9 | 19 |
| 26 | 53.36 | 58 | 20.2 | 19 | 47.34 | 33 | 36.2 | 20 | 33.01 | 95 | 45.7 | 5 | 33.21 | 34 | 10.0 | 20 |
| Dez. 6 | 53.94 | 55 | 22.1 | 23 | 47.67 | 32 | 38.2 | 22 | 33.96 | 93 | 45.2 | 0 | 33.55 | 34 | 8.0 | 19 |
| 16 | 54.49 | 49 | 24.4 | 29 | 47.99 | 31 | 40.4 | 22 | 34.89 | 88 | 45.2 | 6 | 33.89 | 32 | 6.1 | 18 |
| 26 | 54.98 | 42 | 27.3 | 33 | 48.30 | 28 | 42.6 | 21 | 35.77 | 80 | 45.8 | 12 | 34.21 | 29 | 4.3 | 17 |
| 36 | 55.40 | | 30.6 | | 48.58 | | 44.7 | | 36.57 | | 47.0 | | 34.50 | | 2.6 | |
| Mittl. Ort | 52.66 | | 32.0 | | 44.98 | | 33.2 | | 27.01 | | 71.9 | | 30.70 | | 17.8 | |
| | 369) | | | | 370) | | | | 372) | | | | 378) | | | |

| 1911 | η Leonis. $3^m.4$. AR. | | η Leonis. Dekl. + | | α Leonis. $1^m.3$. AR. | | α Leonis. Dekl. + | | λ Hydrae. $3^m.7$. AR. | | λ Hydrae. Dekl. − | | q Velorum. $3^m.9$. AR. | | q Velorum. Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $10^h\ 2^m$ | | 17° 11′ | | $10^h\ 3^m$ | | 12° 23′ | | $10^h\ 6^m$ | | 11° 54′ | | $10^h\ 10^m$ | | 41° 40′ | |
| Jan. 0 | 29.16 | 29 | 50.2 | 12 | 38.20 | 28 | 71.2 | 14 | 15.03 | 27 | 40.9 | 24 | 60.00 | 31 | 33.5 | 32 |
| 10 | 29.45 | 25 | 49.0 | 9 | 38.48 | 25 | 69.8 | 12 | 15.30 | 24 | 43.3 | 24 | 60.31 | 25 | 36.7 | 33 |
| 20 | 29.70 | 21 | 48.1 | 7 | 38.73 | 20 | 68.6 | 9 | 15.54 | 19 | 45.7 | 22 | 60.56 | 20 | 40.0 | 34 |
| 30 | 29.91 | 15 | 47.4 | 4 | 38.93 | 16 | 67.7 | 7 | 15.73 | 14 | 47.9 | 21 | 60.76 | 14 | 43.4 | 34 |
| Febr. 9 | 30.06 | 11 | 47.0 | 1 | 39.09 | 10 | 67.0 | 4 | 15.87 | 9 | 50.0 | 19 | 60.90 | 9 | 46.8 | 33 |
| 19 | 30.17 | 5 | 46.9 | 2 | 39.19 | 5 | 66.6 | 2 | 15.96 | 5 | 51.9 | 16 | 60.99 | 2 | 50.1 | 31 |
| März 1 | 30.22 | 1 | 47.1 | 3 | 39.24 | 1 | 66.4 | 1 | 16.01 | 0 | 53.5 | 14 | 61.01 | 2 | 53.2 | 29 |
| 11 | 30.23 | 3 | 47.4 | 5 | 39.25 | 3 | 66.5 | 2 | 16.01 | 4 | 54.9 | 11 | 60.99 | 8 | 56.1 | 26 |
| 21 | 30.20 | 7 | 47.9 | 6 | 39.22 | 7 | 66.7 | 4 | 15.97 | 7 | 56.0 | 9 | 60.91 | 11 | 58.7 | 23 |
| 31 | 30.13 | 9 | 48.5 | 7 | 39.15 | 9 | 67.1 | 5 | 15.90 | 9 | 56.9 | 6 | 60.80 | 15 | 61.0 | 19 |
| April 10 | 30.04 | 11 | 49.2 | 8 | 39.06 | 10 | 67.6 | 6 | 15.81 | 12 | 57.5 | 3 | 60.65 | 17 | 62.9 | 15 |
| 20 | 29.93 | 13 | 50.0 | 7 | 38.96 | 12 | 68.2 | 6 | 15.69 | 12 | 57.8 | 1 | 60.48 | 19 | 64.4 | 10 |
| 30 | 29.80 | 12 | 50.7 | 6 | 38.84 | 12 | 68.8 | 6 | 15.57 | 12 | 57.9 | 1 | 60.29 | 19 | 65.4 | 7 |
| Mai 10 | 29.68 | 12 | 51.3 | 6 | 38.72 | 12 | 69.4 | 5 | 15.45 | 12 | 57.8 | 3 | 60.10 | 20 | 66.1 | 2 |
| 20 | 29.56 | 11 | 51.9 | 5 | 38.60 | 11 | 69.9 | 5 | 15.33 | 12 | 57.5 | 5 | 59.90 | 19 | 66.3 | 2 |
| 30 | 29.45 | 10 | 52.4 | 4 | 38.49 | 10 | 70.4 | 5 | 15.21 | 10 | 57.0 | 8 | 59.71 | 19 | 66.1 | 6 |
| Juni 9 | 29.35 | 8 | 52.8 | 3 | 38.39 | 8 | 70.9 | 4 | 15.11 | 9 | 56.2 | 9 | 59.52 | 17 | 65.5 | 10 |
| 19 | 29.27 | 6 | 53.1 | 2 | 38.31 | 6 | 71.3 | 4 | 15.02 | 8 | 55.3 | 10 | 59.35 | 15 | 64.5 | 14 |
| 29 | 29.21 | 4 | 53.3 | 0 | 38.25 | 4 | 71.7 | 2 | 14.94 | 5 | 54.3 | 11 | 59.20 | 12 | 63.1 | 17 |
| Juli 9 | 29.17 | 2 | 53.3 | 0 | 38.21 | 1 | 71.9 | 2 | 14.89 | 3 | 53.2 | 12 | 59.08 | 10 | 61.4 | 20 |
| 19 | 29.15 | 1 | 53.3 | 2 | 38.20 | 0 | 72.1 | 0 | 14.86 | 1 | 52.0 | 12 | 58.98 | 7 | 59.4 | 22 |
| 29 | 29.16 | 4 | 53.1 | 4 | 38.20 | 4 | 72.1 | 0 | 14.85 | 1 | 50.8 | 12 | 58.91 | 4 | 57.2 | 24 |
| Aug. 8 | 29.20 | 6 | 52.7 | 5 | 38.24 | 6 | 72.1 | 3 | 14.86 | 5 | 49.6 | 12 | 58.87 | 0 | 54.8 | 24 |
| 18 | 29.26 | 10 | 52.2 | 7 | 38.30 | 9 | 71.8 | 4 | 14.91 | 8 | 48.4 | 11 | 58.87 | 6 | 52.4 | 26 |
| 28 | [22] 29.36 | 12 | 51.5 | 9 | [22] 38.39 | 12 | 71.4 | 6 | [23] 14.99 | 10 | 47.3 | 8 | [24] 58.93 | 9 | 49.8 | 23 |
| Sept. 7 | 29.48 | 16 | 50.6 | 10 | 38.51 | 15 | 70.8 | 8 | 15.09 | 14 | 46.5 | 6 | 59.02 | 15 | 47.5 | 20 |
| 17 | 29.64 | 18 | 49.6 | 13 | 38.66 | 18 | 70.0 | 10 | 15.23 | 17 | 45.9 | 3 | 59.17 | 19 | 45.5 | 17 |
| 27 | 29.82 | 22 | 48.3 | 14 | 38.84 | 21 | 69.0 | 12 | 15.40 | 21 | 45.6 | 1 | 59.36 | 23 | 43.8 | 14 |
| Okt. 7 | 30.04 | 25 | 46.9 | 16 | 39.05 | 25 | 67.8 | 14 | 15.61 | 23 | 45.7 | 4 | 59.59 | 29 | 42.4 | 8 |
| 17 | 30.29 | 29 | 45.3 | 17 | 39.30 | 27 | 66.4 | 15 | 15.84 | 28 | 46.1 | 7 | 59.88 | 32 | 41.6 | 4 |
| 27 | 30.58 | 31 | 43.6 | 19 | 39.57 | 31 | 64.9 | 18 | 16.12 | 29 | 46.8 | 12 | 60.20 | 35 | 41.2 | 2 |
| Nov. 6 | 30.89 | 33 | 41.7 | 19 | 39.88 | 32 | 63.1 | 18 | 16.41 | 32 | 48.0 | 15 | 60.55 | 38 | 41.4 | 8 |
| 16 | 31.22 | 34 | 39.8 | 19 | 40.20 | 34 | 61.3 | 20 | 16.73 | 34 | 49.5 | 18 | 60.93 | 39 | 42.2 | 14 |
| 26 | 31.56 | 36 | 37.9 | 18 | 40.54 | 35 | 59.3 | 19 | 17.07 | 34 | 51.3 | 21 | 61.32 | 40 | 43.6 | 18 |
| Dez. 6 | 31.92 | 35 | 36.1 | 18 | 40.89 | 34 | 57.4 | 18 | 17.41 | 33 | 53.4 | 22 | 61.72 | 39 | 45.4 | 24 |
| 16 | 32.27 | 33 | 34.3 | 16 | 41.23 | 32 | 55.6 | 18 | 17.74 | 31 | 55.6 | 25 | 62.11 | 36 | 47.8 | 27 |
| 26 | 32.60 | 30 | 32.7 | 13 | 41.55 | 31 | 53.8 | 16 | 18.05 | 29 | 58.1 | 24 | 62.47 | 33 | 50.5 | 31 |
| 36 | 32.90 | | 31.4 | | 41.86 | | 52.2 | | 18.34 | | 60.5 | | 62.80 | | 53.6 | |
| Mittl. Ort | 28.95 | | 49.3 | | 38.03 | | 69.0 | | 14.96 | | 49.8 | | 59.83 | | 50.4 | |
| | 379) | | | | 380) | | | | 381) | | | | 382) | | | |

| 1911 | λ Ursae maj. 3ᵐ.4. AR. | | λ Ursae maj. Dekl. + | | ζ Leonis. 3ᵐ.4. AR. | | ζ Leonis. Dekl. + | |
|---|---|---|---|---|---|---|---|---|
| | 10ʰ 11ᵐ | | 43° 21′ | | 10ʰ 11ᵐ | | 23° 51′ | |
| Jan. 0 | 44.63 | 37 | 27.4 | 0 | 44.82 | 30 | 39.3 | 10 |
| 10 | 45.00 | 33 | 27.4 | 4 | 45.12 | 28 | 38.3 | 6 |
| 20 | 45.33 | 26 | 27.8 | 8 | 45.40 | 22 | 37.7 | 3 |
| 30 | 45.59 | 21 | 28.6 | 11 | 45.62 | 17 | 37.4 | 0 |
| Febr. 9 | 45.80 | 14 | 29.7 | 14 | 45.79 | 12 | 37.4 | 3 |
| 19 | 45.94 | 8 | 31.1 | 16 | 45.91 | 7 | 37.7 | 5 |
| März 1 | 46.02 | 1 | 32.7 | 18 | 45.98 | 2 | 38.2 | 8 |
| 11 | 46.03 | 4 | 34.5 | 19 | 46.00 | 3 | 39.0 | 8 |
| 21 | 45.99 | 9 | 36.4 | 17 | 45.97 | 6 | 39.8 | 10 |
| 31 | 45.90 | 13 | 38.1 | 17 | 45.91 | 10 | 40.8 | 10 |
| April 10 | 45.77 | 16 | 39.8 | 15 | 45.81 | 11 | 41.8 | 9 |
| 20 | 45.61 | 18 | 41.3 | 12 | 45.70 | 12 | 42.7 | 9 |
| 30 | 45.43 | 18 | 42.5 | 9 | 45.58 | 13 | 43.6 | 8 |
| Mai 10 | 45.25 | 19 | 43.4 | 6 | 45.45 | 13 | 44.4 | 6 |
| 20 | 45.06 | 17 | 44.0 | 3 | 45.32 | 12 | 45.0 | 5 |
| 30 | 44.89 | 16 | 44.3 | 1 | 45.20 | 11 | 45.5 | 3 |
| Juni 9 | 44.73 | 13 | 44.2 | 4 | 45.09 | 9 | 45.8 | 2 |
| 19 | 44.60 | 11 | 43.8 | 7 | 45.00 | 7 | 46.0 | 1 |
| 29 | 44.49 | 8 | 43.1 | 10 | 44.93 | 5 | 45.9 | 2 |
| Juli 9 | 44.41 | 4 | 42.1 | 13 | 44.88 | 2 | 45.7 | 3 |
| 19 | 44.37 | 2 | 40.8 | 15 | 44.86 | 0 | 45.4 | 6 |
| 29 | 44.35 | 2 | 39.3 | 18 | 44.86 | 2 | 44.8 | 7 |
| Aug. 8 | 44.37 | 6 | 37.5 | 20 | 44.88 | 6 | 44.1 | 9 |
| 18 | 44.43 | 11 | 35.5 | 24 | 44.94 | 9 | 43.2 | 12 |
| 28 | 21 44.54 | 14 | 33.1 | 23 | 21 45.03 | 12 | 42.0 | 13 |
| Sept. 7 | 44.68 | 18 | 30.8 | 24 | 45.15 | 15 | 40.7 | 14 |
| 17 | 44.86 | 22 | 28.4 | 25 | 45.30 | 18 | 39.3 | 16 |
| 27 | 45.08 | 26 | 25.9 | 25 | 45.48 | 22 | 37.7 | 18 |
| Okt. 7 | 45.34 | 30 | 23.4 | 25 | 45.70 | 26 | 35.9 | 19 |
| 17 | 45.64 | 35 | 20.9 | 24 | 45.96 | 29 | 34.0 | 19 |
| 27 | 45.99 | 38 | 18.5 | 23 | 46.25 | 31 | 32.1 | 20 |
| Nov. 6 | 46.37 | 40 | 16.2 | 21 | 46.56 | 34 | 30.1 | 20 |
| 16 | 46.77 | 43 | 14.1 | 18 | 46.90 | 36 | 28.1 | 20 |
| 26 | 47.20 | 44 | 12.3 | 15 | 47.26 | 36 | 26.1 | 18 |
| Dez. 6 | 47.64 | 43 | 10.8 | 11 | 47.62 | 37 | 24.3 | 17 |
| 16 | 48.07 | 42 | 9.7 | 8 | 47.99 | 35 | 22.6 | 14 |
| 26 | 48.49 | 39 | 8.9 | 3 | 48.34 | 32 | 21.2 | 11 |
| 36 | 48.88 | | 8.6 | | 48.66 | | 20.1 | |
| Mittl. Ort | 44.07 | | 32.9 | | 44.58 | | 40.3 | |
| | 383) | | | | 384) | | | |

| 1911 | μ Ursae maj. 3ᵐ.0. AR. | | μ Ursae maj. Dekl. + | | 30 H. Urs. maj. 5ᵐ.0. AR. | | 30 H. Urs. maj. Dekl. + | |
|---|---|---|---|---|---|---|---|---|
| | 10ʰ 17ᵐ | | 41° 56′ | | 10ʰ 17ᵐ | | 66° 0′ | |
| Jan. 0 | 2.42 | 38 | 45.3 | 2 | 45.26 | 60 | 51.7 | 8 |
| 10 | 2.80 | 32 | 45.1 | 3 | 45.86 | 52 | 52.5 | 14 |
| 20 | 3.12 | 26 | 45.4 | 6 | 46.38 | 44 | 53.9 | 18 |
| 30 | 3.38 | 21 | 46.0 | 11 | 46.82 | 32 | 55.7 | 22 |
| Febr. 9 | 3.59 | 15 | 47.1 | 13 | 47.14 | 22 | 57.9 | 24 |
| 19 | 3.74 | 8 | 48.4 | 16 | 47.36 | 11 | 60.3 | 27 |
| März 1 | 3.82 | 2 | 50.0 | 17 | 47.47 | 1 | 63.0 | 27 |
| 11 | 3.84 | 3 | 51.7 | 18 | 47.46 | 11 | 65.7 | 26 |
| 21 | 3.81 | 8 | 53.5 | 17 | 47.35 | 19 | 68.3 | 24 |
| 31 | 3.73 | 12 | 55.2 | 16 | 47.16 | 27 | 70.7 | 22 |
| April 10 | 3.61 | 15 | 56.8 | 15 | 46.89 | 33 | 72.9 | 19 |
| 20 | 3.46 | 17 | 58.3 | 13 | 46.56 | 36 | 74.8 | 14 |
| 30 | 3.29 | 18 | 59.6 | 9 | 46.20 | 39 | 76.2 | 9 |
| Mai 10 | 3.11 | 18 | 60.5 | 7 | 45.81 | 39 | 77.1 | 5 |
| 20 | 2.93 | 16 | 61.2 | 3 | 45.42 | 39 | 77.6 | 0 |
| 30 | 2.77 | 16 | 61.5 | 1 | 45.03 | 37 | 77.6 | 5 |
| Juni 9 | 2.61 | 13 | 61.6 | 3 | 44.66 | 33 | 77.1 | 9 |
| 19 | 2.48 | 11 | 61.3 | 6 | 44.33 | 28 | 76.2 | 15 |
| 29 | 2.37 | 8 | 60.7 | 9 | 44.05 | 22 | 74.7 | 18 |
| Juli 9 | 2.29 | 5 | 59.8 | 13 | 43.83 | 17 | 72.9 | 22 |
| 19 | 2.24 | 1 | 58.5 | 14 | 43.66 | 10 | 70.7 | 26 |
| 29 | 2.23 | 1 | 57.1 | 17 | 43.56 | 3 | 68.1 | 28 |
| Aug. 8 | 2.24 | 5 | 55.4 | 19 | 43.53 | 4 | 65.3 | 29 |
| 18 | 2.29 | 10 | 53.5 | 23 | 43.57 | 12 | 62.4 | 35 |
| 28 | 26 2.39 | 13 | 51.2 | 23 | 26 43.69 | 19 | 58.9 | 33 |
| Sept. 7 | 2.52 | 17 | 48.9 | 24 | 43.88 | 27 | 55.6 | 33 |
| 17 | 2.69 | 21 | 46.5 | 25 | 44.15 | 34 | 52.3 | 32 |
| 27 | 2.90 | 25 | 44.0 | 25 | 44.49 | 41 | 49.1 | 32 |
| Okt. 7 | 3.15 | 30 | 41.5 | 25 | 44.90 | 48 | 45.9 | 29 |
| 17 | 3.45 | 33 | 39.0 | 24 | 45.38 | 55 | 43.0 | 27 |
| 27 | 3.78 | 37 | 36.6 | 23 | 45.93 | 60 | 40.3 | 24 |
| Nov. 6 | 4.15 | 39 | 34.3 | 21 | 46.53 | 65 | 37.9 | 21 |
| 16 | 4.54 | 42 | 32.2 | 19 | 47.18 | 69 | 35.8 | 15 |
| 26 | 4.96 | 43 | 30.3 | 16 | 47.87 | 70 | 34.3 | 11 |
| Dez. 6 | 5.39 | 42 | 28.7 | 12 | 48.57 | 69 | 33.2 | 6 |
| 16 | 5.81 | 41 | 27.5 | 9 | 49.26 | 67 | 32.6 | 1 |
| 26 | 6.22 | 39 | 26.6 | 4 | 49.93 | 62 | 32.5 | 5 |
| 36 | 6.61 | | 26.2 | | 50.55 | | 33.0 | |
| Mittl. Ort | 1.92 | | 50.7 | | 43.61 | | 60.9 | |
| | 386) | | | | 387) | | | |

| 1911 | μ Hydrae. 3m.9. AR. | | Dekl. − | | J Carinae. 4m.1. AR. | | Dekl. − | | 31 Leon. min. 4m.2. AR. | | Dekl. + | | Lac. α Antliae. 4m.2. AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10h 21m | | 16° 22′ | | 10h 22m | | 73° 34′ | | 10h 22m | | 37° 9′ | | 10h 23m | | 30° 36′ | |
| Jan. 0 | 47.13 | 28 | 43.9 | 26 | 38.96 | 62 | 19.5 | 31 | 44.85 | 36 | 44.3 | 5 | 4.67 | 29 | 37.5 | 29 |
| 10 | 47.41 | 25 | 46.5 | 25 | 39.58 | 50 | 22.6 | 34 | 45.21 | 31 | 43.8 | 0 | 4.96 | 26 | 40.4 | 31 |
| 20 | 47.66 | 20 | 49.0 | 25 | 40.08 | 37 | 26.0 | 38 | 45.52 | 26 | 43.8 | 4 | 5.22 | 20 | 43.5 | 30 |
| 30 | 47.86 | 16 | 51.5 | 23 | 40.45 | 24 | 29.8 | 39 | 45.78 | 21 | 44.2 | 7 | 5.42 | 16 | 46.5 | 30 |
| Febr. 9 | 48.02 | 11 | 53.8 | 22 | 40.69 | 10 | 33.7 | 39 | 45.99 | 14 | 44.9 | 11 | 5.58 | 11 | 49.5 | 28 |
| 19 | 48.13 | 6 | 56.0 | 19 | 40.79 | 3 | 37.6 | 39 | 46.13 | 9 | 46.0 | 13 | 5.69 | 5 | 52.3 | 27 |
| März 1 | 48.19 | 1 | 57.9 | 17 | 40.76 | 16 | 41.5 | 38 | 46.22 | 3 | 47.3 | 14 | 5.74 | 1 | 55.0 | 24 |
| 11 | 48.20 | 2 | 59.6 | 14 | 40.60 | 28 | 45.3 | 34 | 46.25 | 3 | 48.7 | 16 | 5.75 | 4 | 57.4 | 22 |
| 21 | 48.18 | 6 | 61.0 | 11 | 40.32 | 38 | 48.9 | 32 | 46.22 | 7 | 50.3 | 16 | 5.71 | 8 | 59.6 | 18 |
| 31 | 48.12 | 9 | 62.1 | 9 | 39.94 | 48 | 52.1 | 30 | 46.15 | 10 | 51.9 | 15 | 5.63 | 10 | 61.4 | 15 |
| April 10 | 48.03 | 10 | 63.0 | 6 | 39.46 | 54 | 55.1 | 26 | 46.05 | 13 | 53.4 | 14 | 5.53 | 13 | 62.9 | 12 |
| 20 | 47.93 | 12 | 63.6 | 3 | 38.92 | 61 | 57.7 | 21 | 45.92 | 15 | 54.8 | 12 | 5.40 | 14 | 64.1 | 8 |
| 30 | 47.81 | 12 | 63.9 | 0 | 38.31 | 65 | 59.8 | 16 | 45.77 | 15 | 56.0 | 10 | 5.26 | 15 | 64.9 | 4 |
| Mai 10 | 47.69 | 13 | 63.9 | 2 | 37.66 | 68 | 61.4 | 11 | 45.62 | 16 | 57.0 | 7 | 5.11 | 15 | 65.3 | 1 |
| 20 | 47.56 | 12 | 63.7 | 4 | 36.98 | 69 | 62.5 | 5 | 45.46 | 15 | 57.7 | 5 | 4.96 | 15 | 65.4 | 2 |
| 30 | 47.44 | 11 | 63.3 | 7 | 36.29 | 69 | 63.0 | 0 | 45.31 | 14 | 58.2 | 1 | 4.81 | 14 | 65.2 | 6 |
| Juni 9 | 47.33 | 10 | 62.6 | 9 | 35.60 | 66 | 63.0 | 5 | 45.17 | 12 | 58.3 | 1 | 4.67 | 13 | 64.6 | 9 |
| 19 | 47.23 | 8 | 61.7 | 10 | 34.94 | 63 | 62.5 | 11 | 45.05 | 10 | 58.2 | 5 | 4.54 | 12 | 63.7 | 12 |
| 29 | 47.15 | 7 | 60.7 | 12 | 34.31 | 57 | 61.4 | 15 | 44.95 | 8 | 57.7 | 7 | 4.42 | 10 | 62.5 | 15 |
| Juli 9 | 47.08 | 5 | 59.5 | 13 | 33.74 | 50 | 59.9 | 20 | 44.87 | 5 | 57.0 | 10 | 4.32 | 7 | 61.0 | 17 |
| 19 | 47.03 | 2 | 58.2 | 13 | 33.24 | 41 | 57.9 | 24 | 44.82 | 2 | 56.0 | 12 | 4.25 | 5 | 59.3 | 18 |
| 29 | 47.01 | 1 | 56.9 | 14 | 32.83 | 31 | 55.5 | 27 | 44.80 | 2 | 54.8 | 14 | 4.20 | 2 | 57.5 | 19 |
| Aug. 8 | 47.00 | 3 | 55.5 | 13 | 32.52 | 19 | 52.8 | 29 | 44.82 | 4 | 53.4 | 17 | 4.18 | 1 | 55.6 | 20 |
| 18 | [27] 47.03 | 6 | 54.2 | 13 | [27] 32.33 | 7 | 49.9 | 33 | [27] 44.86 | 9 | 51.7 | 20 | [27] 4.19 | 5 | 53.6 | 21 |
| 28 | 47.09 | 9 | 52.9 | 11 | 32.26 | 7 | 46.6 | 30 | 44.95 | 12 | 49.7 | 20 | 4.24 | 8 | 51.5 | 18 |
| Sept. 7 | 47.18 | 12 | 51.8 | 8 | 32.33 | 21 | 43.6 | 30 | 45.07 | 15 | 47.7 | 22 | 4.32 | 13 | 49.7 | 16 |
| 17 | 47.30 | 16 | 51.0 | 5 | 32.54 | 35 | 40.6 | 27 | 45.22 | 19 | 45.5 | 23 | 4.45 | 16 | 48.1 | 12 |
| 27 | 47.46 | 20 | 50.5 | 2 | 32.89 | 47 | 37.9 | 23 | 45.41 | 23 | 43.2 | 24 | 4.61 | 20 | 46.9 | 9 |
| Okt. 7 | 47.66 | 23 | 50.3 | 1 | 33.36 | 59 | 35.6 | 19 | 45.64 | 27 | 40.8 | 24 | 4.81 | 25 | 46.0 | 5 |
| 17 | 47.89 | 26 | 50.4 | 6 | 33.95 | 70 | 33.7 | 14 | 45.91 | 31 | 38.4 | 23 | 5.06 | 28 | 45.5 | 0 |
| 27 | 48.15 | 30 | 51.0 | 9 | 34.65 | 77 | 32.3 | 8 | 46.22 | 35 | 36.1 | 23 | 5.34 | 32 | 45.5 | 5 |
| Nov. 6 | 48.45 | 32 | 51.9 | 14 | 35.42 | 83 | 31.5 | 1 | 46.57 | 37 | 33.8 | 22 | 5.66 | 34 | 46.0 | 10 |
| 16 | 48.77 | 33 | 53.3 | 17 | 36.25 | 85 | 31.4 | 5 | 46.94 | 40 | 31.6 | 20 | 6.00 | 36 | 47.0 | 14 |
| 26 | 49.10 | 34 | 55.0 | 20 | 37.10 | 86 | 31.9 | 12 | 47.34 | 40 | 29.6 | 17 | 6.36 | 36 | 48.4 | 19 |
| Dez. 6 | 49.44 | 34 | 57.0 | 23 | 37.96 | 82 | 33.1 | 18 | 47.74 | 40 | 27.9 | 14 | 6.72 | 36 | 50.3 | 23 |
| 16 | 49.78 | 33 | 59.3 | 25 | 38.78 | 76 | 34.9 | 23 | 48.14 | 39 | 26.5 | 11 | 7.08 | 35 | 52.6 | 26 |
| 26 | 50.11 | 30 | 61.8 | 25 | 39.54 | 67 | 37.2 | 30 | 48.53 | 37 | 25.4 | 7 | 7.43 | 31 | 55.2 | 29 |
| 36 | 50.41 | | 64.3 | | 40.21 | | 40.2 | | 48.90 | | 24.7 | | 7.74 | | 58.1 | |
| Mittl. Ort | 47.14 | | 54.1 | | 37.82 | | 42.2 | | 44.48 | | 49.0 | | 4.67 | | 51.7 | |
| | 389) | | | | 391) | | | | 390) | | | | 392) | | | |

| 1911 | *s* Carinae. $4^m.1$. AR. | | Dekl. − | | 36 Ursae maj. $4^m.8$. AR. | | Dekl. + | | 9 H. Draconis. $4^m.9$. AR. | | Dekl. + | | 33 Sextantis. $6^m.6$. AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $10^h 24^m$ | | 58° 16′ | | $10^h 24^m$ | | 56° 25′ | | $10^h 27^m$ | | 76° 9′ | | $10^h 36^m$ | | 1° 16′ | |
| Jan. 0 | 36.85 | 39 | 44.5 | 32 | 57.30 | 47 | 65.9 | 4 | 36.76 | 97 | 68.4 | 11 | 52.50 | 29 | 19.1 | 21 |
| 10 | 37.24 | 33 | 47.7 | 34 | 57.77 | 42 | 66.3 | 8 | 37.73 | 84 | 69.5 | 16 | 52.79 | 26 | 21.2 | 20 |
| 20 | 37.57 | 26 | 51.1 | 37 | 58.19 | 35 | 67.1 | 14 | 38.57 | 70 | 71.1 | 21 | 53.05 | 22 | 23.2 | 17 |
| 30 | 37.83 | 18 | 54.8 | 38 | 58.54 | 27 | 68.5 | 17 | 39.27 | 54 | 73.2 | 25 | 53.27 | 18 | 24.9 | 16 |
| Febr. 9 | 38.01 | 10 | 58.6 | 38 | 58.81 | 19 | 70.2 | 20 | 39.81 | 36 | 75.7 | 27 | 53.45 | 13 | 26.5 | 13 |
| 19 | 38.11 | 3 | 62.4 | 36 | 59.00 | 11 | 72.2 | 22 | 40.17 | 17 | 78.4 | 29 | 53.58 | 8 | 27.8 | 11 |
| März 1 | 38.14 | 5 | 66.0 | 35 | 59.11 | 2 | 74.4 | 24 | 40.34 | 1 | 81.3 | 30 | 53.66 | 4 | 28.9 | 7 |
| 11 | 38.09 | 11 | 69.5 | 33 | 59.13 | 5 | 76.8 | 23 | 40.33 | 18 | 84.3 | 28 | 53.70 | 0 | 29.6 | 6 |
| 21 | 37.98 | 17 | 72.8 | 29 | 59.08 | 12 | 79.1 | 23 | 40.15 | 34 | 87.1 | 27 | 53.70 | 4 | 30.2 | 3 |
| 31 | 37.81 | 22 | 75.7 | 26 | 58.96 | 17 | 81.4 | 21 | 39.81 | 48 | 89.8 | 24 | 53.66 | 6 | 30.5 | 2 |
| April 10 | 37.59 | 25 | 78.3 | 22 | 58.79 | 22 | 83.5 | 18 | 39.33 | 59 | 92.2 | 20 | 53.60 | 9 | 30.7 | 1 |
| 20 | 37.34 | 29 | 80.5 | 17 | 58.57 | 24 | 85.3 | 15 | 38.74 | 67 | 94.2 | 15 | 53.51 | 10 | 30.6 | 2 |
| 30 | 37.05 | 31 | 82.2 | 13 | 58.33 | 27 | 86.8 | 10 | 38.07 | 71 | 95.7 | 10 | 53.41 | 10 | 30.4 | 3 |
| Mai 10 | 36.74 | 31 | 83.5 | 7 | 58.06 | 26 | 87.8 | 7 | 37.36 | 74 | 96.7 | 4 | 53.31 | 11 | 30.1 | 4 |
| 20 | 36.43 | 32 | 84.2 | 3 | 57.80 | 26 | 88.5 | 3 | 36.62 | 73 | 97.1 | 1 | 53.20 | 11 | 29.7 | 5 |
| 30 | 36.11 | 31 | 84.5 | 3 | 57.54 | 25 | 88.8 | 2 | 35.89 | 70 | 97.0 | 6 | 53.09 | 10 | 29.2 | 6 |
| Juni 9 | 35.80 | 30 | 84.2 | 7 | 57.29 | 21 | 88.6 | 7 | 35.19 | 65 | 96.4 | 11 | 52.99 | 9 | 28.6 | 7 |
| 19 | 35.50 | 28 | 83.5 | 12 | 57.08 | 19 | 87.9 | 11 | 34.54 | 58 | 95.3 | 17 | 52.90 | 8 | 27.9 | 7 |
| 29 | 35.22 | 25 | 82.3 | 17 | 56.89 | 15 | 86.8 | 14 | 33.96 | 48 | 93.6 | 21 | 52.82 | 6 | 27.2 | 7 |
| Juli 9 | 34.97 | 21 | 80.6 | 20 | 56.74 | 11 | 85.4 | 18 | 33.48 | 39 | 91.5 | 25 | 52.76 | 4 | 26.5 | 7 |
| 19 | 34.76 | 17 | 78.6 | 23 | 56.63 | 6 | 83.6 | 21 | 33.09 | 27 | 89.0 | 28 | 52.72 | 2 | 25.8 | 6 |
| 29 | 34.59 | 12 | 76.3 | 26 | 56.57 | 2 | 81.5 | 24 | 32.82 | 16 | 86.2 | 31 | 52.70 | 1 | 25.2 | 6 |
| Aug. 8 | 34.47 | 7 | 73.7 | 28 | 56.55 | 3 | 79.1 | 26 | 32.66 | 3 | 83.1 | 33 | 52.69 | 3 | 24.6 | 5 |
| 18 | 34.40 | 0 | 70.9 | 29 | 56.58 | 8 | 76.5 | 28 | 32.63 | 10 | 79.8 | 34 | 52.72 | 4 | 24.1 | 4 |
| 28 | 34.40 | 8 | 68.0 | 30 | 56.66 | 15 | 73.7 | 32 | 32.73 | 25 | 76.4 | 39 | 52.76 | 8 | 23.7 | 2 |
| Sept. 7 | [28] 34.48 | 14 | 65.0 | 26 | [28] 56.81 | 20 | 70.5 | 30 | [29] 32.98 | 36 | 72.5 | 36 | [31] 52.84 | 11 | 23.5 | 1 |
| 17 | 34.62 | 22 | 62.4 | 24 | 57.01 | 25 | 67.5 | 30 | 33.34 | 50 | 68.9 | 35 | 52.95 | 15 | 23.6 | 3 |
| 27 | 34.84 | 29 | 60.0 | 20 | 57.26 | 31 | 64.5 | 30 | 33.84 | 62 | 65.4 | 33 | 53.10 | 18 | 23.9 | 5 |
| Okt. 7 | 35.13 | 35 | 58.0 | 15 | 57.57 | 36 | 61.5 | 29 | 34.46 | 73 | 62.1 | 32 | 53.28 | 22 | 24.4 | 9 |
| 17 | 35.48 | 41 | 56.5 | 10 | 57.93 | 41 | 58.6 | 27 | 35.19 | 85 | 58.9 | 28 | 53.50 | 25 | 25.3 | 11 |
| 27 | 35.89 | 45 | 55.5 | 4 | 58.34 | 45 | 55.9 | 25 | 36.04 | 93 | 56.1 | 25 | 53.75 | 28 | 26.4 | 15 |
| Nov. 6 | 36.34 | 50 | 55.1 | 2 | 58.79 | 50 | 53.4 | 22 | 36.97 | 102 | 53.6 | 21 | 54.03 | 31 | 27.9 | 17 |
| 16 | 36.84 | 51 | 55.3 | 8 | 59.29 | 52 | 51.2 | 19 | 37.99 | 107 | 51.5 | 16 | 54.34 | 32 | 29.6 | 19 |
| 26 | 37.35 | 51 | 56.1 | 15 | 59.81 | 54 | 49.3 | 14 | 39.06 | 111 | 49.9 | 10 | 54.66 | 34 | 31.5 | 21 |
| Dez. 6 | 37.86 | 50 | 57.6 | 21 | 60.35 | 54 | 47.9 | 9 | 40.17 | 110 | 48.9 | 4 | 55.00 | 34 | 33.6 | 21 |
| 16 | 38.36 | 48 | 59.7 | 25 | 60.89 | 52 | 47.0 | 5 | 41.27 | 106 | 48.5 | 2 | 55.34 | 33 | 35.7 | 22 |
| 26 | 38.84 | 42 | 62.2 | 31 | 61.41 | 50 | 46.5 | 1 | 42.33 | 100 | 48.7 | 7 | 55.67 | 30 | 37.9 | 21 |
| 36 | 39.26 | | 65.3 | | 61.91 | | 46.6 | | 43.33 | | 49.4 | | 55.97 | | 40.0 | |
| Mittl. Ort | 36.54 | | 65.1 | | 56.36 | | 74.2 | | 33.53 | | 78.9 | | 52.56 | | 24.6 | |
| | 393) | | | | 394) | | | | 395) | | | | 404) | | | |

| 1911 | ϑ Argus. $2^m.8$. AR. | | Dekl. − | | 42 Leon. min. $5^m.3$. AR. | | Dekl. + | | μ Argus. $2^m.7$. AR. | | Dekl. − | | l Leonis. $5^m.4$. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $10^h\ 39^m$ | | 63° 55′ | | $10^h\ 40^m$ | | 31° 8′ | | $10^h\ 42^m$ | | 48° 56′ | | $10^h\ 44^m$ | | 11° 0′ | |
| Jan. 0 | 47.00 | 47 | 18.6 | 31 | 55.37 | 34 | 60.8 | 8 | 56.22 | 36 | 40.1 | 31 | 34.79 | 31 | 60.4 | 16 |
| 10 | 47.47 | 41 | 21.7 | 34 | 55.71 | 31 | 60.0 | 4 | 56.58 | 31 | 43.2 | 33 | 35.10 | 28 | 58.8 | 15 |
| 20 | 47.88 | 32 | 25.1 | 36 | 56.02 | 26 | 59.6 | 1 | 56.89 | 26 | 46.5 | 35 | 35.38 | 24 | 57.3 | 11 |
| 30 | 48.20 | 23 | 28.7 | 39 | 56.28 | 22 | 59.5 | 3 | 57.15 | 20 | 50.0 | 35 | 35.62 | 19 | 56.2 | 9 |
| Febr. 9 | 48.43 | 14 | 32.6 | 38 | 56.50 | 16 | 59.8 | 6 | 57.35 | 13 | 53.5 | 35 | 35.81 | 14 | 55.3 | 6 |
| 19 | 48.57 | 5 | 36.4 | 38 | 56.66 | 10 | 60.4 | 10 | 57.48 | 7 | 57.0 | 34 | 35.95 | 10 | 54.7 | 3 |
| März 1 | 48.62 | 4 | 40.2 | 37 | 56.76 | 5 | 61.4 | 11 | 57.55 | 1 | 60.4 | 34 | 36.05 | 5 | 54.4 | 1 |
| 11 | 48.58 | 10 | 43.9 | 35 | 56.81 | 0 | 62.5 | 13 | 57.56 | 4 | 63.8 | 30 | 36.10 | 1 | 54.3 | 2 |
| 21 | 48.48 | 19 | 47.4 | 32 | 56.81 | 4 | 63.8 | 14 | 57.52 | 9 | 66.8 | 27 | 36.11 | 3 | 54.5 | 4 |
| 31 | 48.29 | 24 | 50.6 | 28 | 56.77 | 8 | 65.2 | 13 | 57.43 | 14 | 69.5 | 24 | 36.08 | 6 | 54.9 | 5 |
| April 10 | 48.05 | 29 | 53.4 | 25 | 56.69 | 10 | 66.5 | 14 | 57.29 | 16 | 71.9 | 21 | 36.02 | 8 | 55.4 | 5 |
| 20 | 47.76 | 34 | 55.9 | 21 | 56.59 | 12 | 67.9 | 12 | 57.13 | 19 | 74.0 | 16 | 35.94 | 10 | 55.9 | 6 |
| 30 | 47.42 | 36 | 58.0 | 16 | 56.47 | 14 | 69.1 | 10 | 56.94 | 21 | 75.6 | 12 | 35.84 | 10 | 56.5 | 7 |
| Mai 10 | 47.06 | 38 | 59.6 | 10 | 56.33 | 14 | 70.1 | 8 | 56.73 | 22 | 76.8 | 7 | 35.74 | 11 | 57.2 | 7 |
| 20 | 46.68 | 40 | 60.6 | 6 | 56.19 | 13 | 70.9 | 6 | 56.51 | 23 | 77.5 | 3 | 35.63 | 11 | 57.9 | 6 |
| 30 | 46.28 | 39 | 61.2 | 0 | 56.06 | 13 | 71.5 | 4 | 56.28 | 22 | 77.8 | 2 | 35.52 | 10 | 58.5 | 5 |
| Juni 9 | 45.89 | 38 | 61.2 | 4 | 55.93 | 11 | 71.9 | 1 | 56.06 | 22 | 77.6 | 6 | 35.42 | 9 | 59.0 | 5 |
| 19 | 45.51 | 37 | 60.8 | 10 | 55.82 | 10 | 72.0 | 1 | 55.84 | 20 | 77.0 | 11 | 35.33 | 8 | 59.5 | 4 |
| 29 | 45.14 | 34 | 59.8 | 14 | 55.72 | 7 | 71.9 | 4 | 55.64 | 18 | 75.9 | 14 | 35.25 | 6 | 59.9 | 4 |
| Juli 9 | 44.80 | 29 | 58.4 | 19 | 55.65 | 6 | 71.5 | 6 | 55.46 | 16 | 74.5 | 18 | 35.19 | 4 | 60.3 | 2 |
| 19 | 44.51 | 25 | 56.5 | 22 | 55.59 | 3 | 70.9 | 9 | 55.30 | 13 | 72.7 | 21 | 35.15 | 3 | 60.5 | 1 |
| 29 | 44.26 | 19 | 54.3 | 26 | 55.56 | 0 | 70.0 | 11 | 55.17 | 9 | 70.6 | 23 | 35.12 | 0 | 60.6 | 1 |
| Aug. 8 | 44.07 | 12 | 51.7 | 27 | 55.56 | 2 | 68.9 | 13 | 55.08 | 5 | 68.3 | 25 | 35.12 | 1 | 60.5 | 2 |
| 18 | 43.95 | 5 | 49.0 | 29 | 55.58 | 5 | 67.6 | 16 | 55.03 | 1 | 65.8 | 26 | 35.13 | 5 | 60.3 | 3 |
| 28 | 43.90 | 4 | 46.1 | 32 | 55.63 | 10 | 66.0 | 19 | 55.02 | 6 | 63.2 | 27 | 35.18 | 8 | 60.0 | 6 |
| Sept. 7 | 43.94 | 13 | 42.9 | 28 | 55.73 | 12 | 64.1 | 19 | 55.08 | 10 | 60.5 | 24 | 35.26 | 11 | 59.4 | 8 |
| 17 | 44.07 | 21 | 40.1 | 25 | 55.85 | 16 | 62.2 | 21 | 55.18 | 17 | 58.1 | 21 | 35.37 | 14 | 58.6 | 11 |
| 27 | 44.28 | 30 | 37.6 | 23 | 56.01 | 20 | 60.1 | 22 | 55.35 | 22 | 56.0 | 18 | 35.51 | 18 | 57.5 | 12 |
| Okt. 7 | 44.58 | 38 | 35.3 | 18 | 56.21 | 24 | 57.9 | 23 | 55.57 | 28 | 54.2 | 13 | 35.69 | 21 | 56.3 | 14 |
| 17 | 44.96 | 46 | 33.5 | 13 | 56.45 | 28 | 55.6 | 23 | 55.85 | 33 | 52.9 | 9 | 35.90 | 25 | 54.9 | 17 |
| 27 | 45.42 | 52 | 32.2 | 8 | 56.73 | 31 | 53.3 | 23 | 56.18 | 37 | 52.0 | 3 | 36.15 | 28 | 53.2 | 18 |
| Nov. 6 | 45.94 | 56 | 31.4 | 1 | 57.04 | 35 | 51.0 | 23 | 56.55 | 41 | 51.7 | 3 | 36.43 | 31 | 51.4 | 20 |
| 16 | 46.50 | 59 | 31.3 | 5 | 57.39 | 36 | 48.7 | 22 | 56.96 | 43 | 52.0 | 9 | 36.74 | 33 | 49.4 | 21 |
| 26 | 47.09 | 59 | 31.8 | 12 | 57.75 | 38 | 46.5 | 19 | 57.39 | 44 | 52.9 | 15 | 37.07 | 34 | 47.3 | 21 |
| Dez. 6 | 47.68 | 59 | 33.0 | 18 | 58.13 | 39 | 44.6 | 17 | 57.83 | 43 | 54.4 | 20 | 37.41 | 34 | 45.2 | 20 |
| 16 | 48.27 | 56 | 34.8 | 23 | 58.52 | 38 | 42.9 | 14 | 58.26 | 42 | 56.4 | 24 | 37.75 | 34 | 43.2 | 20 |
| 26 | 48.83 | 51 | 37.1 | 29 | 58.90 | 35 | 41.5 | 11 | 58.68 | 39 | 58.8 | 29 | 38.09 | 33 | 41.2 | 18 |
| 36 | 49.34 | | 40.0 | | 59.25 | | 40.4 | | 59.07 | | 61.7 | | 38.42 | | 39.4 | |
| Mittl. Ort | 46.76 | | 40.6 | | 55.18 | | 64.9 | | 56.27 | | 59.3 | | 34.83 | | 58.9 | |
| | 406) | | | | 407) | | | | 408) | | | | 409) | | | |

| 1911 | *i* Velorum. 4ᵐ.5. | | | | β Ursae maj. 2ᵐ.3. | | | | α Ursae maj. 1ᵐ.8. | | | | χ Leonis. 4ᵐ.8. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | Δ | Dekl. − | Δ | AR. | Δ | Dekl. + | Δ | AR. | Δ | Dekl. + | Δ | AR. | Δ | Dekl. + | Δ |
| | $10^h\,56^m$ | | 41° 44′ | | $10^h\,56^m$ | | 56° 51′ | | $10^h\,58^m$ | | 62° 13′ | | $11^h\,0^m$ | | 7° 48′ | |
| Jan. 0 | 3.89 | 35 | 36.7 | 29 | 29.47 | 50 | 24.7 | 0 | 15.72 | 57 | 43.0 | 2 | 25.50 | 31 | 64.7 | 19 |
| 10 | 4.24 | 30 | 39.6 | 31 | 29.97 | 46 | 24.7 | 6 | 16.29 | 52 | 43.2 | 8 | 25.81 | 28 | 62.8 | 16 |
| 20 | 4.54 | 27 | 42.7 | 33 | 30.43 | 39 | 25.3 | 11 | 16.81 | 44 | 44.0 | 13 | 26.09 | 24 | 61.2 | 14 |
| 30 | 4.81 | 20 | 46.0 | 33 | 30.82 | 32 | 26.4 | 15 | 17.25 | 37 | 45.3 | 17 | 26.33 | 20 | 59.8 | 11 |
| Febr. 9 | 5.01 | 15 | 49.3 | 33 | 31.14 | 25 | 27.9 | 19 | 17.62 | 28 | 47.0 | 21 | 26.53 | 16 | 58.7 | 8 |
| 19 | 5.16 | 9 | 52.6 | 32 | 31.39 | 16 | 29.8 | 22 | 17.90 | 18 | 49.1 | 24 | 26.69 | 11 | 57.9 | 5 |
| März 1 | 5.25 | 4 | 55.8 | 30 | 31.55 | 7 | 32.0 | 24 | 18.08 | 8 | 51.5 | 26 | 26.80 | 6 | 57.4 | 3 |
| 11 | 5.29 | 1 | 58.8 | 28 | 31.62 | 0 | 34.4 | 25 | 18.16 | 0 | 54.1 | 26 | 26.86 | 2 | 57.1 | 0 |
| 21 | 5.28 | 5 | 61.6 | 25 | 31.62 | 7 | 36.9 | 24 | 18.16 | 10 | 56.7 | 26 | 26.88 | 1 | 57.1 | 1 |
| 31 | 5.23 | 10 | 64.1 | 22 | 31.55 | 13 | 39.3 | 22 | 18.06 | 16 | 59.3 | 24 | 26.87 | 4 | 57.2 | 4 |
| April 10 | 5.13 | 12 | 66.3 | 18 | 31.42 | 18 | 41.5 | 21 | 17.90 | 23 | 61.7 | 22 | 26.83 | 7 | 57.6 | 4 |
| 20 | 5.01 | 14 | 68.1 | 15 | 31.24 | 22 | 43.6 | 18 | 17.67 | 27 | 63.9 | 18 | 26.76 | 8 | 58.0 | 6 |
| 30 | 4.87 | 17 | 69.6 | 10 | 31.02 | 25 | 45.4 | 14 | 17.40 | 30 | 65.7 | 14 | 26.68 | 10 | 58.6 | 6 |
| Mai 10 | 4.70 | 17 | 70.6 | 7 | 30.77 | 26 | 46.8 | 10 | 17.10 | 33 | 67.1 | 10 | 26.58 | 10 | 59.2 | 6 |
| 20 | 4.53 | 18 | 71.3 | 2 | 30.51 | 27 | 47.8 | 5 | 16.77 | 33 | 68.1 | 5 | 26.48 | 10 | 59.8 | 6 |
| 30 | 4.35 | 18 | 71.5 | 1 | 30.24 | 26 | 48.3 | 2 | 16.44 | 32 | 68.6 | 1 | 26.38 | 10 | 60.4 | 6 |
| Juni 9 | 4.17 | 17 | 71.4 | 6 | 29.98 | 24 | 48.5 | 4 | 16.12 | 30 | 68.7 | 5 | 26.28 | 9 | 61.0 | 5 |
| 19 | 4.00 | 17 | 70.8 | 9 | 29.74 | 22 | 48.1 | 8 | 15.82 | 27 | 68.2 | 9 | 26.19 | 9 | 61.5 | 5 |
| 29 | 3.83 | 15 | 69.9 | 13 | 29.53 | 19 | 47.3 | 12 | 15.55 | 25 | 67.3 | 14 | 26.10 | 7 | 62.0 | 4 |
| Juli 9 | 3.68 | 13 | 68.6 | 17 | 29.34 | 16 | 46.1 | 15 | 15.30 | 20 | 65.9 | 17 | 26.03 | 5 | 62.4 | 4 |
| 19 | 3.55 | 11 | 66.9 | 19 | 29.18 | 11 | 44.6 | 20 | 15.10 | 15 | 64.2 | 22 | 25.98 | 4 | 62.8 | 2 |
| 29 | 3.44 | 8 | 65.0 | 21 | 29.07 | 7 | 42.6 | 23 | 14.95 | 10 | 62.0 | 25 | 25.94 | 3 | 63.0 | 1 |
| Aug. 8 | 3.36 | 4 | 62.9 | 21 | 29.00 | 3 | 40.3 | 25 | 14.85 | 5 | 59.5 | 27 | 25.91 | 1 | 63.1 | 0 |
| 18 | 3.32 | 1 | 60.8 | 23 | 28.97 | 2 | 37.8 | 28 | 14.80 | 1 | 56.8 | 31 | 25.92 | 3 | 63.1 | 2 |
| 28 | 3.31 | 4 | 58.5 | 25 | 28.99 | 8 | 35.0 | 33 | 14.81 | 8 | 53.7 | 35 | 25.95 | 5 | 62.9 | 4 |
| Sept. 7 | 3.35 | 9 | 56.0 | 21 | 29.07 | 14 | 31.7 | 32 | 14.89 | 14 | 50.2 | 33 | 26.00 | 10 | 62.5 | 7 |
| 17 | 3.44 | 14 | 53.9 | 18 | 29.21 | 19 | 28.5 | 32 | 15.03 | 21 | 46.9 | 34 | 26.10 | 12 | 61.8 | 8 |
| 27 | 3.58 | 19 | 52.1 | 15 | 29.40 | 26 | 25.3 | 32 | 15.24 | 28 | 43.5 | 33 | 26.22 | 16 | 61.0 | 11 |
| Okt. 7 | 3.77 | 24 | 50.6 | 12 | 29.66 | 31 | 22.1 | 31 | 15.52 | 35 | 40.2 | 33 | 26.38 | 20 | 59.9 | 13 |
| 17 | 4.01 | 29 | 49.4 | 6 | 29.97 | 37 | 19.0 | 31 | 15.87 | 42 | 36.9 | 31 | 26.58 | 23 | 58.6 | 15 |
| 27 | 4.30 | 33 | 48.8 | 2 | 30.34 | 42 | 15.9 | 28 | 16.29 | 48 | 33.8 | 29 | 26.81 | 27 | 57.1 | 18 |
| Nov. 6 | 4.63 | 36 | 48.6 | 4 | 30.76 | 47 | 13.1 | 26 | 16.77 | 53 | 30.9 | 26 | 27.08 | 30 | 55.3 | 19 |
| 16 | 4.99 | 39 | 49.0 | 10 | 31.23 | 51 | 10.5 | 22 | 17.30 | 57 | 28.3 | 22 | 27.38 | 32 | 53.4 | 21 |
| 26 | 5.38 | 40 | 50.0 | 14 | 31.74 | 53 | 8.3 | 18 | 17.87 | 60 | 26.1 | 18 | 27.70 | 34 | 51.3 | 21 |
| Dez. 6 | 5.78 | 41 | 51.4 | 20 | 32.27 | 54 | 6.5 | 13 | 18.47 | 62 | 24.3 | 12 | 28.04 | 34 | 49.2 | 21 |
| 16 | 6.19 | 39 | 53.4 | 24 | 32.81 | 53 | 5.2 | 8 | 19.09 | 61 | 23.1 | 7 | 28.38 | 34 | 47.1 | 21 |
| 26 | 6.58 | 37 | 55.8 | 28 | 33.34 | 52 | 4.4 | 3 | 19.70 | 59 | 22.4 | 1 | 28.72 | 32 | 45.0 | 20 |
| 36 | 6.95 | | 58.6 | | 33.86 | | 4.1 | | 20.29 | | 22.3 | | 29.04 | | 43.0 | |
| Mittl. Ort | 4.10 | | 54.2 | | 28.72 | | 34.8 | | 14.69 | | 54.0 | | 25.63 | | 62.5 | |
| | 415) | | | | 416) | | | | 417) | | | | 418) | | | |

| 1911 | ψ Ursae maj. $3^m.0$ | | | | β Crateris. $4^m.3$ | | | | δ Leonis. $2^m.4$ | | | | θ Leonis. $3^m.3$ | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | Diff. | Dekl. + | Diff. | AR. | Diff. | Dekl. − | Diff. | AR. | Diff. | Dekl. + | Diff. | AR. | Diff. | Dekl. + | Diff. |
| | $11^h 4^m$ | | 44° 58′ | | $11^h 7^m$ | | 22° 20′ | | $11^h 9^m$ | | 21° 0′ | | $11^h 9^m$ | | 15° 54′ | |
| Jan. 0 | 40.21 | 41 | 45.3 | 5 | 16.45 | 32 | 11.2 | 27 | 22.56 | 33 | 39.1 | 14 | 34.16 | 32 | 57.6 | 16 |
| 10 | 40.62 | 37 | 44.8 | 0 | 16.77 | 28 | 13.9 | 26 | 22.89 | 31 | 37.7 | 11 | 34.48 | 30 | 56.0 | 13 |
| 20 | 40.99 | 33 | 44.8 | 4 | 17.05 | 25 | 16.5 | 27 | 23.20 | 27 | 36.6 | 8 | 34.78 | 26 | 54.7 | 10 |
| 30 | 41.32 | 28 | 45.2 | 9 | 17.30 | 20 | 19.2 | 26 | 23.47 | 22 | 35.8 | 4 | 35.04 | 22 | 53.7 | 7 |
| Febr. 9 | 41.60 | 21 | 46.1 | 13 | 17.50 | 16 | 21.8 | 25 | 23.69 | 18 | 35.4 | 0 | 35.26 | 17 | 53.0 | 4 |
| 19 | 41.81 | 14 | 47.4 | 16 | 17.66 | 11 | 24.3 | 23 | 23.87 | 12 | 35.4 | 2 | 35.43 | 12 | 52.6 | 0 |
| März 1 | 41.95 | 9 | 49.0 | 19 | 17.77 | 6 | 26.6 | 21 | 23.99 | 8 | 35.6 | 6 | 35.55 | 8 | 52.6 | 2 |
| 11 | 42.04 | 2 | 50.9 | 20 | 17.83 | 2 | 28.7 | 18 | 24.07 | 3 | 36.2 | 7 | 35.63 | 3 | 52.8 | 5 |
| 21 | 42.06 | 3 | 52.9 | 20 | 17.85 | 2 | 30.5 | 15 | 24.10 | 0 | 36.9 | 9 | 35.66 | 0 | 53.3 | 6 |
| 31 | 42.03 | 8 | 54.9 | 20 | 17.83 | 5 | 32.0 | 13 | 24.10 | 4 | 37.8 | 10 | 35.66 | 4 | 53.9 | 8 |
| April 10 | 41.95 | 12 | 56.9 | 19 | 17.78 | 7 | 33.3 | 11 | 24.06 | 7 | 38.8 | 11 | 35.62 | 7 | 54.7 | 8 |
| 20 | 41.83 | 14 | 58.8 | 16 | 17.71 | 9 | 34.4 | 7 | 23.99 | 9 | 39.9 | 10 | 35.55 | 8 | 55.5 | 9 |
| 30 | 41.69 | 17 | 60.4 | 14 | 17.62 | 11 | 35.1 | 4 | 23.90 | 10 | 40.9 | 10 | 35.47 | 10 | 56.4 | 8 |
| Mai 10 | 41.52 | 18 | 61.8 | 11 | 17.51 | 11 | 35.5 | 2 | 23.80 | 11 | 41.9 | 9 | 35.37 | 10 | 57.2 | 8 |
| 20 | 41.34 | 18 | 62.9 | 8 | 17.40 | 12 | 35.7 | 1 | 23.69 | 11 | 42.8 | 7 | 35.27 | 11 | 58.0 | 7 |
| 30 | 41.16 | 18 | 63.7 | 3 | 17.28 | 11 | 35.6 | 4 | 23.58 | 11 | 43.5 | 6 | 35.16 | 10 | 58.7 | 6 |
| Juni 9 | 40.98 | 16 | 64.0 | 0 | 17.17 | 12 | 35.2 | 6 | 23.47 | 11 | 44.1 | 5 | 35.06 | 10 | 59.3 | 5 |
| 19 | 40.82 | 15 | 64.0 | 3 | 17.05 | 11 | 34.6 | 9 | 23.36 | 9 | 44.6 | 2 | 34.96 | 9 | 59.8 | 4 |
| 29 | 40.67 | 13 | 63.7 | 8 | 16.94 | 9 | 33.7 | 10 | 23.27 | 8 | 44.8 | 1 | 34.87 | 7 | 60.2 | 2 |
| Juli 9 | 40.54 | 11 | 62.9 | 11 | 16.85 | 9 | 32.7 | 12 | 23.19 | 6 | 44.9 | 2 | 34.80 | 6 | 60.4 | 0 |
| 19 | 40.43 | 8 | 61.8 | 14 | 16.76 | 6 | 31.5 | 14 | 23.13 | 5 | 44.7 | 3 | 34.74 | 5 | 60.4 | 1 |
| 29 | 40.35 | 5 | 60.4 | 17 | 16.70 | 5 | 30.1 | 14 | 23.08 | 3 | 44.4 | 6 | 34.69 | 3 | 60.3 | 3 |
| Aug. 8 | 40.30 | 2 | 58.7 | 20 | 16.65 | 2 | 28.7 | 14 | 23.05 | 0 | 43.8 | 7 | 34.66 | 0 | 60.0 | 5 |
| 18 | 40.28 | 2 | 56.7 | 22 | 16.63 | 1 | 27.3 | 15 | 23.05 | 2 | 43.1 | 10 | 34.66 | 2 | 59.5 | 6 |
| 28 | 40.30 | 6 | 54.5 | 25 | 16.64 | 3 | 25.8 | 13 | 23.07 | 5 | 42.1 | 12 | 34.68 | 4 | 58.9 | 9 |
| Sept. 7 | 40.36 | 11 | 52.0 | 29 | 16.67 | 8 | 24.5 | 12 | 23.12 | 9 | 40.9 | 15 | 34.72 | 9 | 58.0 | 12 |
| 17 | 40.47 | 15 | 49.1 | 28 | 16.75 | 12 | 23.3 | 9 | 23.21 | 12 | 39.4 | 16 | 34.81 | 12 | 56.8 | 13 |
| 27 | 40.62 | 20 | 46.3 | 29 | 16.87 | 16 | 22.4 | 6 | 23.33 | 15 | 37.8 | 18 | 34.93 | 16 | 55.5 | 16 |
| Okt. 7 | 40.82 | 25 | 43.4 | 29 | 17.03 | 20 | 21.8 | 3 | 23.48 | 20 | 36.0 | 20 | 35.09 | 19 | 53.9 | 17 |
| 17 | 41.07 | 29 | 40.5 | 29 | 17.23 | 24 | 21.5 | 2 | 23.68 | 24 | 34.0 | 22 | 35.28 | 23 | 52.2 | 20 |
| 27 | 41.36 | 33 | 37.6 | 27 | 17.47 | 27 | 21.7 | 6 | 23.92 | 28 | 31.8 | 22 | 35.51 | 27 | 50.2 | 20 |
| Nov. 6 | 41.69 | 38 | 34.9 | 26 | 17.74 | 31 | 22.3 | 10 | 24.20 | 30 | 29.6 | 23 | 35.78 | 30 | 48.2 | 22 |
| 16 | 42.07 | 41 | 32.3 | 24 | 18.05 | 34 | 23.3 | 13 | 24.50 | 33 | 27.3 | 23 | 36.08 | 32 | 46.0 | 22 |
| 26 | 42.48 | 43 | 29.9 | 21 | 18.39 | 35 | 24.6 | 18 | 24.83 | 36 | 25.0 | 21 | 36.40 | 35 | 43.8 | 22 |
| Dez. 6 | 42.91 | 44 | 27.8 | 17 | 18.74 | 35 | 26.4 | 21 | 25.19 | 36 | 22.9 | 21 | 36.75 | 35 | 41.6 | 21 |
| 16 | 43.35 | 44 | 26.1 | 12 | 19.09 | 35 | 28.5 | 24 | 25.55 | 36 | 20.8 | 19 | 37.10 | 35 | 39.5 | 20 |
| 26 | 43.79 | 43 | 24.9 | 8 | 19.44 | 33 | 30.9 | 25 | 25.91 | 34 | 18.9 | 16 | 37.45 | 34 | 37.5 | 17 |
| 36 | 44.22 | | 24.1 | | 19.77 | | 33.4 | | 26.25 | | 17.3 | | 37.79 | | 35.8 | |
| Mittl. Ort | 39.89 | | 53.6 | | 16.75 | | 23.1 | | 22.63 | | 41.3 | | 34.28 | | 58.3 | |
| | 420) | | | | 421) | | | | 422) | | | | 423) | | | |

| 1911 | ν Ursae maj. 3m.4 AR. | | ν Ursae maj. Dekl. + | | δ Crateris. 3m.6 AR. | | δ Crateris. Dekl. − | | σ Leonis. 4m.1 AR. | | σ Leonis. Dekl. + | | π Centauri. 4m.1 AR. | | π Centauri. Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11h 13m | | 33° 34′ | | 11h 14m | | 14° 17′ | | 11h 16m | | 6° 30′ | | 11h 16m | | 53° 59′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | | s | | ″ | |
| Jan. 0 | 40.55 | 37 | 42.2 | 9 | 53.07 | 31 | 39.3 | 24 | 32.65 | 32 | 64.2 | 19 | 56.25 | 43 | 50.9 | 27 |
| 10 | 40.92 | 34 | 41.3 | 6 | 53.38 | 29 | 41.7 | 24 | 32.97 | 29 | 62.3 | 17 | 56.68 | 38 | 53.6 | 32 |
| 20 | 41.26 | 30 | 40.7 | 2 | 53.67 | 25 | 44.1 | 24 | 33.26 | 26 | 60.6 | 15 | 57.06 | 33 | 56.8 | 33 |
| 30 | 41.56 | 25 | 40.5 | 3 | 53.92 | 21 | 46.5 | 22 | 33.52 | 21 | 59.1 | 12 | 57.39 | 26 | 60.1 | 35 |
| Febr. 9 | 41.81 | 19 | 40.8 | 6 | 54.13 | 16 | 48.7 | 21 | 33.73 | 17 | 57.9 | 9 | 57.65 | 20 | 63.6 | 36 |
| 19 | 42.00 | 14 | 41.4 | 10 | 54.29 | 12 | 50.8 | 19 | 33.90 | 13 | 57.0 | 7 | 57.85 | 13 | 67.2 | 36 |
| März 1 | 42.14 | 9 | 42.4 | 13 | 54.41 | 7 | 52.7 | 16 | 34.03 | 8 | 56.3 | 3 | 57.98 | 7 | 70.8 | 35 |
| 11 | 42.23 | 4 | 43.7 | 14 | 54.48 | 3 | 54.3 | 13 | 34.11 | 4 | 56.0 | 1 | 58.05 | 0 | 74.3 | 33 |
| 21 | 42.27 | 1 | 45.1 | 15 | 54.51 | 0 | 55.6 | 11 | 34.15 | 0 | 55.9 | 0 | 58.05 | 5 | 77.6 | 31 |
| 31 | 42.26 | 5 | 46.6 | 17 | 54.51 | 3 | 56.7 | 9 | 34.15 | 3 | 55.9 | 3 | 58.00 | 10 | 80.7 | 29 |
| April 10 | 42.21 | 8 | 48.3 | 15 | 54.48 | 6 | 57.6 | 7 | 34.12 | 5 | 56.2 | 4 | 57.90 | 14 | 83.6 | 23 |
| 20 | 42.13 | 10 | 49.8 | 15 | 54.42 | 8 | 58.3 | 3 | 34.07 | 8 | 56.6 | 6 | 57.76 | 18 | 85.9 | 21 |
| 30 | 42.03 | 13 | 51.3 | 12 | 54.34 | 9 | 58.6 | 2 | 33.99 | 8 | 57.2 | 5 | 57.58 | 20 | 88.0 | 17 |
| Mai 10 | 41.90 | 13 | 52.5 | 11 | 54.25 | 10 | 58.8 | 1 | 33.91 | 9 | 57.7 | 6 | 57.38 | 23 | 89.7 | 12 |
| 20 | 41.77 | 14 | 53.6 | 9 | 54.15 | 11 | 58.7 | 2 | 33.82 | 10 | 58.3 | 6 | 57.15 | 24 | 90.9 | 8 |
| 30 | 41.63 | 13 | 54.5 | 5 | 54.04 | 10 | 58.5 | 5 | 33.72 | 10 | 58.9 | 7 | 56.91 | 25 | 91.7 | 3 |
| Juni 9 | 41.50 | 13 | 55.0 | 3 | 53.94 | 11 | 58.0 | 6 | 33.62 | 10 | 59.6 | 6 | 56.66 | 26 | 92.0 | 2 |
| 19 | 41.37 | 12 | 55.3 | 0 | 53.83 | 9 | 57.4 | 8 | 33.52 | 8 | 60.2 | 5 | 56.40 | 24 | 91.8 | 6 |
| 29 | 41.25 | 10 | 55.3 | 3 | 53.74 | 9 | 56.6 | 8 | 33.44 | 8 | 60.7 | 5 | 56.16 | 24 | 91.2 | 10 |
| Juli 9 | 41.15 | 8 | 55.0 | 6 | 53.65 | 6 | 55.8 | 10 | 33.36 | 6 | 61.2 | 3 | 55.92 | 22 | 90.2 | 15 |
| 19 | 41.07 | 7 | 54.4 | 9 | 53.57 | 6 | 54.8 | 11 | 33.30 | 5 | 61.5 | 3 | 55.70 | 19 | 88.7 | 19 |
| 29 | 41.00 | 4 | 53.5 | 11 | 53.51 | 4 | 53.7 | 11 | 33.25 | 4 | 61.8 | 2 | 55.51 | 15 | 86.8 | 21 |
| Aug. 8 | 40.96 | 1 | 52.4 | 14 | 53.47 | 2 | 52.6 | 11 | 33.21 | 1 | 62.0 | 0 | 55.36 | 12 | 84.7 | 24 |
| 18 | 40.95 | 1 | 51.0 | 17 | 53.45 | 0 | 51.5 | 10 | 33.20 | 1 | 62.0 | 1 | 55.24 | 6 | 82.3 | 26 |
| 28 | 40.96 | 5 | 49.3 | 19 | 53.45 | 3 | 50.5 | 8 | 33.21 | 4 | 61.9 | 3 | 55.18 | 1 | 79.7 | 26 |
| Sept. 7 | 41.01 | 9 | 47.4 | 23 | 53.48 | 8 | 49.7 | 8 | 33.25 | 8 | 61.6 | 6 | 55.17 | 6 | 77.1 | 27 |
| 17 | 41.10 | 12 | 45.1 | 23 | 53.56 | 11 | 48.9 | 5 | 33.33 | 11 | 61.0 | 8 | 55.23 | 12 | 74.4 | 24 |
| 27 | 41.22 | 16 | 42.8 | 24 | 53.67 | 15 | 48.4 | 1 | 33.44 | 14 | 60.2 | 11 | 55.35 | 19 | 72.0 | 21 |
| Okt. 7 | 41.38 | 21 | 40.4 | 26 | 53.82 | 19 | 48.3 | 1 | 33.58 | 18 | 59.1 | 13 | 55.54 | 26 | 69.9 | 18 |
| 17 | 41.59 | 25 | 37.8 | 26 | 54.01 | 22 | 48.4 | 5 | 33.76 | 23 | 57.8 | 15 | 55.80 | 32 | 68.1 | 13 |
| 27 | 41.84 | 30 | 35.2 | 26 | 54.23 | 26 | 48.9 | 9 | 33.99 | 25 | 56.3 | 17 | 56.12 | 38 | 66.8 | 8 |
| Nov. 6 | 42.14 | 33 | 32.6 | 25 | 54.49 | 30 | 49.8 | 12 | 34.24 | 29 | 54.6 | 19 | 56.50 | 42 | 66.0 | 2 |
| 16 | 42.47 | 35 | 30.1 | 24 | 54.79 | 32 | 51.0 | 16 | 34.53 | 32 | 52.7 | 21 | 56.92 | 46 | 65.8 | 4 |
| 26 | 42.82 | 38 | 27.7 | 22 | 55.11 | 34 | 52.6 | 19 | 34.85 | 33 | 50.6 | 21 | 57.38 | 48 | 66.2 | 10 |
| Dez. 6 | 43.20 | 39 | 25.5 | 20 | 55.45 | 34 | 54.5 | 21 | 35.18 | 35 | 48.5 | 22 | 57.86 | 49 | 67.2 | 15 |
| 16 | 43.59 | 39 | 23.5 | 16 | 55.79 | 35 | 56.6 | 23 | 35.53 | 34 | 46.3 | 21 | 58.35 | 47 | 68.7 | 21 |
| 26 | 43.98 | 38 | 21.9 | 12 | 56.14 | 32 | 58.9 | 24 | 35.87 | 33 | 44.2 | 21 | 58.82 | 45 | 70.8 | 25 |
| 36 | 44.36 | | 20.7 | | 56.46 | | 61.3 | | 36.20 | | 42.1 | | 59.27 | | 73.3 | |
| Mittl. Ort | 40.50 | | 48.2 | | 53.39 | | 48.4 | | 32.88 | | 62.0 | | 56.64 | | 71.4 | |
| | 425) | | | | 426) | | | | 427) | | | | 428) | | | |

| 1911 | Gr. 1771. 6ᵐ.2. AR. | | Dekl. + | | λ Draconis. 3ᵐ.6. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|
| | 11ʰ 17ᵐ | | 64° 48′ | | 11ʰ 26ᵐ | | 69° 48′ | |
| Jan. 0 | 35.60 | 64 | 51.5 | 1 | 9.36 | 75 | 67.3 | 1 |
| 10 | 36.24 | 58 | 51.6 | 6 | 10.11 | 70 | 67.4 | 7 |
| 20 | 36.82 | 51 | 52.2 | 12 | 10.81 | 62 | 68.1 | 13 |
| 30 | 37.33 | 43 | 53.4 | 17 | 11.43 | 52 | 69.4 | 18 |
| Febr. 9 | 37.76 | 33 | 55.1 | 21 | 11.95 | 42 | 71.2 | 22 |
| 19 | 38.09 | 23 | 57.2 | 24 | 12.37 | 30 | 73.4 | 25 |
| März 1 | 38.32 | 13 | 59.6 | 27 | 12.67 | 17 | 75.9 | 28 |
| 11 | 38.45 | 3 | 62.3 | 27 | 12.84 | 4 | 78.7 | 29 |
| 21 | 38.48 | 6 | 65.0 | 27 | 12.88 | 8 | 81.6 | 28 |
| 31 | 38.42 | 15 | 67.7 | 26 | 12.80 | 18 | 84.4 | 27 |
| April 10 | 38.27 | 22 | 70.3 | 23 | 12.62 | 28 | 87.1 | 25 |
| 20 | 38.05 | 28 | 72.6 | 20 | 12.34 | 35 | 89.6 | 21 |
| 30 | 37.77 | 33 | 74.6 | 17 | 11.99 | 41 | 91.7 | 18 |
| Mai 10 | 37.44 | 35 | 76.3 | 12 | 11.58 | 45 | 93.5 | 12 |
| 20 | 37.09 | 37 | 77.5 | 7 | 11.13 | 47 | 94.7 | 8 |
| 30 | 36.72 | 36 | 78.2 | 2 | 10.66 | 48 | 95.5 | 2 |
| Juni 9 | 36.36 | 36 | 78.4 | 3 | 10.18 | 47 | 95.7 | 3 |
| 19 | 36.00 | 33 | 78.1 | 8 | 9.71 | 44 | 95.4 | 8 |
| 29 | 35.67 | 30 | 77.3 | 12 | 9.27 | 41 | 94.6 | 13 |
| Juli 9 | 35.37 | 26 | 76.1 | 17 | 8.86 | 36 | 93.3 | 18 |
| 19 | 35.11 | 21 | 74.4 | 21 | 8.50 | 31 | 91.5 | 22 |
| 29 | 34.90 | 16 | 72.3 | 25 | 8.19 | 24 | 89.3 | 26 |
| Aug. 8 | 34.74 | 11 | 69.8 | 27 | 7.95 | 17 | 86.7 | 29 |
| 18 | 34.63 | 4 | 67.1 | 31 | 7.78 | 10 | 83.8 | 32 |
| 28 | 34.59 | 2 | 64.0 | 33 | 7.68 | 1 | 80.6 | 34 |
| Sept. 7 | 34.61 | 11 | 60.7 | 37 | 7.67 | 9 | 77.2 | 39 |
| 17 | 34.72 | 18 | 57.0 | 36 | 7.76 | 17 | 73.3 | 36 |
| 27 | 34.90 | 25 | 53.4 | 35 | 7.93 | 28 | 69.7 | 37 |
| Okt. 7 | 35.15 | 33 | 49.9 | 34 | 8.21 | 37 | 66.0 | 36 |
| 17 | 35.48 | 41 | 46.5 | 33 | 8.58 | 45 | 62.4 | 34 |
| 27 | 35.89 | 48 | 43.2 | 31 | 9.03 | 55 | 59.0 | 32 |
| Nov. 6 | 36.37 | 54 | 40.1 | 28 | 9.58 | 62 | 55.8 | 29 |
| 16 | 36.91 | 59 | 37.3 | 24 | 10.20 | 70 | 52.9 | 24 |
| 26 | 37.50 | 64 | 34.9 | 20 | 10.90 | 74 | 50.5 | 20 |
| Dez. 6 | 38.14 | 65 | 32.9 | 14 | 11.64 | 77 | 48.5 | 14 |
| 16 | 38.79 | 66 | 31.5 | 9 | 12.41 | 79 | 47.1 | 9 |
| 26 | 39.45 | 63 | 30.6 | 2 | 13.20 | 77 | 46.2 | 3 |
| 36 | 40.08 | | 30.4 | | 13.97 | | 45.9 | |
| Mittl. Ort | 34.59 | | 63.8 | | 7.99 | | 80.5 | |
| | 429) | | | | 433) | | | |

| 1911 | ξ Hydrae. 3ᵐ.6. AR. | | Dekl. − | | λ Centauri. 3ᵐ.3. AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|
| | 11ʰ 28ᵐ | | 31° 21′ | | 11ʰ 31ᵐ | | 62° 31′ | |
| Jan. 0 | 36.83 | 34 | 39.8 | 27 | 39.65 | 52 | 16.1 | 25 |
| 10 | 37.17 | 31 | 42.5 | 28 | 40.17 | 48 | 18.6 | 30 |
| 20 | 37.48 | 28 | 45.3 | 29 | 40.65 | 42 | 21.6 | 33 |
| 30 | 37.76 | 23 | 48.2 | 29 | 41.07 | 33 | 24.9 | 35 |
| Febr. 9 | 37.99 | 19 | 51.1 | 28 | 41.40 | 25 | 28.4 | 37 |
| 19 | 38.18 | 13 | 53.9 | 27 | 41.65 | 18 | 32.1 | 37 |
| März 1 | 38.31 | 9 | 56.6 | 26 | 41.83 | 11 | 35.8 | 38 |
| 11 | 38.40 | 4 | 59.2 | 23 | 41.94 | 3 | 39.6 | 36 |
| 21 | 38.44 | 0 | 61.5 | 21 | 41.97 | 5 | 43.2 | 34 |
| 31 | 38.44 | 4 | 63.6 | 19 | 41.92 | 11 | 46.6 | 32 |
| April 10 | 38.40 | 6 | 65.5 | 15 | 41.81 | 18 | 49.8 | 28 |
| 20 | 38.34 | 9 | 67.0 | 12 | 41.63 | 22 | 52.6 | 25 |
| 30 | 38.25 | 10 | 68.2 | 9 | 41.41 | 26 | 55.1 | 21 |
| Mai 10 | 38.15 | 12 | 69.1 | 5 | 41.15 | 30 | 57.2 | 16 |
| 20 | 38.03 | 13 | 69.6 | 3 | 40.85 | 32 | 58.8 | 12 |
| 30 | 37.90 | 13 | 69.9 | 1 | 40.53 | 34 | 60.0 | 7 |
| Juni 9 | 37.77 | 14 | 69.8 | 4 | 40.19 | 35 | 60.7 | 2 |
| 19 | 37.63 | 13 | 69.4 | 7 | 39.84 | 35 | 60.9 | 4 |
| 29 | 37.50 | 12 | 68.7 | 10 | 39.49 | 33 | 60.5 | 8 |
| Juli 9 | 37.38 | 11 | 67.7 | 12 | 39.16 | 33 | 59.7 | 13 |
| 19 | 37.27 | 10 | 66.5 | 14 | 38.83 | 29 | 58.4 | 17 |
| 29 | 37.17 | 8 | 65.1 | 16 | 38.54 | 24 | 56.7 | 21 |
| Aug. 8 | 37.09 | 6 | 63.5 | 17 | 38.30 | 20 | 54.6 | 24 |
| 18 | 37.03 | 2 | 61.8 | 17 | 38.10 | 14 | 52.2 | 26 |
| 28 | 37.01 | 1 | 60.1 | 17 | 37.96 | 6 | 49.6 | 27 |
| Sept. 7 | 37.02 | 5 | 58.4 | 18 | 37.90 | 3 | 46.9 | 31 |
| 17 | 37.07 | 10 | 56.6 | 14 | 37.93 | 11 | 43.8 | 26 |
| 27 | 37.17 | 14 | 55.2 | 11 | 38.04 | 19 | 41.2 | 25 |
| Okt. 7 | 37.31 | 19 | 54.1 | 8 | 38.23 | 29 | 38.7 | 21 |
| 17 | 37.50 | 23 | 53.3 | 4 | 38.52 | 36 | 36.6 | 17 |
| 27 | 37.73 | 27 | 52.9 | 1 | 38.88 | 44 | 34.9 | 13 |
| Nov. 6 | 38.00 | 32 | 53.0 | 5 | 39.32 | 50 | 33.6 | 6 |
| 16 | 38.32 | 34 | 53.5 | 10 | 39.82 | 55 | 33.0 | 1 |
| 26 | 38.66 | 37 | 54.5 | 15 | 40.37 | 58 | 32.9 | 6 |
| Dez. 6 | 39.03 | 38 | 56.0 | 18 | 40.95 | 59 | 33.5 | 12 |
| 16 | 39.41 | 37 | 57.8 | 23 | 41.54 | 59 | 34.7 | 17 |
| 26 | 39.78 | 36 | 60.1 | 25 | 42.13 | 55 | 36.4 | 23 |
| 36 | 40.14 | | 62.6 | | 42.68 | | 38.7 | |
| Mittl. Ort | 37.30 | | 54.3 | | 40.23 | | 38.3 | |
| | 434) | | | | 436) | | | |

| 1911 | υ Leonis. 4ᵐ.4. AR. | | υ Leonis. Dekl. − | | 3 Draconis. 5ᵐ.4. AR. | | 3 Draconis. Dekl. + | |
|---|---|---|---|---|---|---|---|---|
| | 11ʰ 32ᵐ | | 0° 19′ | | 11ʰ 37ᵐ | | 67° 13′ | |
| | s | | ″ | | s | | ″ | |
| Jan. 0 | 23.15 | 32 | 52.3 | 21 | 32.10 | 70 | 61.9 | 2 |
| 10 | 23.47 | 30 | 54.4 | 20 | 32.80 | 64 | 61.7 | 5 |
| 20 | 23.77 | 26 | 56.4 | 18 | 33.44 | 58 | 62.2 | 11 |
| 30 | 24.03 | 23 | 58.2 | 16 | 34.02 | 50 | 63.3 | 16 |
| Febr. 9 | 24.26 | 18 | 59.8 | 13 | 34.52 | 40 | 64.9 | 20 |
| 19 | 24.44 | 14 | 61.1 | 11 | 34.92 | 29 | 66.9 | 24 |
| März 1 | 24.58 | 10 | 62.2 | 8 | 35.21 | 18 | 69.3 | 27 |
| 11 | 24.68 | 5 | 63.0 | 5 | 35.39 | 8 | 72.0 | 28 |
| 21 | 24.73 | 1 | 63.5 | 4 | 35.47 | —4 | 74.8 | 28 |
| 31 | 24.74 | —1 | 63.9 | 1 | 35.43 | 13 | 77.6 | 27 |
| April 10 | 24.73 | 4 | 64.0 | —1 | 35.30 | 22 | 80.3 | 26 |
| 20 | 24.69 | 6 | 63.9 | 2 | 35.08 | 28 | 82.9 | 22 |
| 30 | 24.63 | 7 | 63.7 | 4 | 34.80 | 34 | 85.1 | 18 |
| Mai 10 | 24.56 | 9 | 63.3 | 4 | 34.46 | 38 | 86.9 | 14 |
| 20 | 24.47 | 9 | 62.9 | 5 | 34.08 | 41 | 88.3 | 9 |
| 30 | 24.38 | 10 | 62.4 | 6 | 33.67 | 41 | 89.2 | 4 |
| Juni 9 | 24.28 | 9 | 61.8 | 6 | 33.26 | 41 | 89.6 | —1 |
| 19 | 24.19 | 9 | 61.2 | 6 | 32.85 | 39 | 89.5 | 6 |
| 29 | 24.10 | 8 | 60.6 | 6 | 32.46 | 37 | 88.9 | 11 |
| Juli 9 | 24.02 | 7 | 60.0 | 6 | 32.09 | 34 | 87.8 | 15 |
| 19 | 23.95 | 6 | 59.4 | 5 | 31.75 | 29 | 86.3 | 21 |
| 29 | 23.89 | 5 | 58.9 | 5 | 31.46 | 23 | 84.2 | 24 |
| Aug. 8 | 23.84 | 2 | 58.4 | 4 | 31.23 | 17 | 81.8 | 28 |
| 18 | 23.82 | 1 | 58.0 | 2 | 31.06 | 11 | 79.0 | 30 |
| 28 | 23.81 | —2 | 57.8 | 1 | 30.95 | 3 | 76.0 | 33 |
| Sept. 7 | 23.83 | 6 | 57.7 | —2 | 30.92 | —4 | 72.7 | 35 |
| 17 | [16] 23.89 | 9 | 57.9 | 4 | [17] 30.96 | 14 | 69.2 | 40 |
| 27 | 23.98 | 13 | 58.3 | 6 | 31.10 | 22 | 65.2 | 37 |
| Okt. 7 | 24.11 | 17 | 58.9 | 9 | 31.32 | 30 | 61.5 | 36 |
| 17 | 24.28 | 21 | 59.8 | 12 | 31.62 | 39 | 57.9 | 34 |
| 27 | 24.49 | 24 | 61.0 | 15 | 32.01 | 47 | 54.5 | 33 |
| Nov. 6 | 24.73 | 28 | 62.5 | 17 | 32.48 | 54 | 51.2 | 30 |
| 16 | 25.01 | 31 | 64.2 | 19 | 33.02 | 62 | 48.2 | 26 |
| 26 | 25.32 | 33 | 66.1 | 21 | 33.64 | 66 | 45.6 | 22 |
| Dez. 6 | 25.65 | 34 | 68.2 | 22 | 34.30 | 69 | 43.4 | 17 |
| 16 | 25.99 | 34 | 70.4 | 22 | 34.99 | 71 | 41.7 | 11 |
| 26 | 26.33 | 33 | 72.6 | 22 | 35.70 | 70 | 40.6 | 4 |
| 36 | 26.66 | | 74.8 | | 36.40 | | 40.2 | |
| Mittl. Ort | 23.51 | | 56.4 | | 31.10 | | 75.4 | |
| | 437) | | | | 440) | | | |

| 1911 | γ Ursae maj. 3ᵐ.8. AR. | | γ Ursae maj. Dekl. + | | β Leonis. 2ᵐ.1. AR. | | β Leonis. Dekl. + | |
|---|---|---|---|---|---|---|---|---|
| | 11ʰ 41ᵐ | | 48° 15′ | | 11ʰ 44ᵐ | | 15° 3′ | |
| | s | | ″ | | s | | ″ | |
| Jan. 0 | 21.49 | 44 | 71.9 | 7 | 30.95 | 34 | 69.2 | 18 |
| 10 | 21.93 | 42 | 71.2 | 3 | 31.29 | 31 | 67.4 | 15 |
| 20 | 22.35 | 38 | 70.9 | —3 | 31.60 | 28 | 65.9 | 12 |
| 30 | 22.73 | 33 | 71.2 | 8 | 31.88 | 25 | 64.7 | 8 |
| Febr. 9 | 23.06 | 26 | 72.0 | 12 | 32.13 | 20 | 63.9 | 5 |
| 19 | 23.32 | 20 | 73.2 | 17 | 32.33 | 16 | 63.4 | 2 |
| März 1 | 23.52 | 14 | 74.9 | 19 | 32.49 | 11 | 63.2 | —1 |
| 11 | 23.66 | 7 | 76.8 | 22 | 32.60 | 7 | 63.3 | 4 |
| 21 | 23.73 | 1 | 79.0 | 22 | 32.67 | 2 | 63.7 | 6 |
| 31 | 23.74 | —4 | 81.2 | 22 | 32.69 | 0 | 64.3 | 8 |
| April 10 | 23.70 | 9 | 83.4 | 22 | 32.69 | 4 | 65.1 | 8 |
| 20 | 23.61 | 13 | 85.6 | 20 | 32.65 | 5 | 65.9 | 9 |
| 30 | 23.48 | 16 | 87.6 | 18 | 32.60 | 8 | 66.8 | 10 |
| Mai 10 | 23.32 | 17 | 89.4 | 14 | 32.52 | 9 | 67.8 | 9 |
| 20 | 23.15 | 19 | 90.8 | 11 | 32.43 | 9 | 68.7 | 8 |
| 30 | 22.96 | 20 | 91.9 | 7 | 32.34 | 10 | 69.5 | 7 |
| Juni 9 | 22.76 | 19 | 92.6 | 3 | 32.24 | 10 | 70.2 | 6 |
| 19 | 22.57 | 18 | 92.9 | —2 | 32.14 | 10 | 70.8 | 5 |
| 29 | 22.39 | 18 | 92.7 | 5 | 32.04 | 9 | 71.3 | 3 |
| Juli 9 | 22.21 | 15 | 92.2 | 9 | 31.95 | 8 | 71.6 | 1 |
| 19 | 22.06 | 13 | 91.3 | 14 | 31.87 | 7 | 71.7 | 0 |
| 29 | 21.93 | 11 | 89.9 | 16 | 31.80 | 6 | 71.7 | 2 |
| Aug. 8 | 21.82 | 7 | 88.3 | 20 | 31.74 | 4 | 71.5 | 4 |
| 18 | 21.75 | 4 | 86.3 | 24 | 31.70 | 1 | 71.1 | 7 |
| 28 | 21.71 | 0 | 83.9 | 25 | 31.69 | —1 | 70.4 | 8 |
| Sept. 7 | 21.71 | 4 | 81.4 | 29 | 31.70 | 4 | 69.6 | 11 |
| 17 | [18] 21.75 | 10 | 78.5 | 33 | [19] 31.74 | 9 | 68.5 | 14 |
| 27 | 21.85 | 15 | 75.2 | 31 | 31.83 | 12 | 67.1 | 16 |
| Okt. 7 | 22.00 | 20 | 72.1 | 32 | 31.95 | 15 | 65.5 | 17 |
| 17 | 22.20 | 26 | 68.9 | 32 | 32.10 | 20 | 63.8 | 20 |
| 27 | 22.46 | 30 | 65.7 | 31 | 32.30 | 24 | 61.8 | 21 |
| Nov. 6 | 22.76 | 36 | 62.6 | 29 | 32.54 | 27 | 59.7 | 22 |
| 16 | 23.12 | 40 | 59.7 | 28 | 32.81 | 31 | 57.5 | 24 |
| 26 | 23.52 | 43 | 56.9 | 24 | 33.12 | 33 | 55.1 | 23 |
| Dez. 6 | 23.95 | 45 | 54.5 | 20 | 33.45 | 35 | 52.8 | 22 |
| 16 | 24.40 | 46 | 52.5 | 16 | 33.80 | 35 | 50.6 | 22 |
| 26 | 24.86 | 45 | 50.9 | 11 | 34.15 | 35 | 48.4 | 19 |
| 36 | 25.31 | | 49.8 | | 34.50 | | 46.5 | |
| Mittl. Ort | 21.33 | | 82.5 | | 31.27 | | 70.6 | |
| | 441) | | | | 444) | | | |

| 1911 | β Virginis. $3^m.5$. AR. | | Dekl. + | | γ Ursae maj. $2^m.3$. AR. | | Dekl. + | | ο Virginis. $4^m.1$. AR. | | Dekl. + | | δ Centauri. $2^m.7$. AR. | | Dekl. — | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $11^h 46^m$ | | 2° 15′ | | $11^h 49^m$ | | 54° 10′ | | $12^h 0^m$ | | 9° 13′ | | $12^h 3^m$ | | 50° 13′ | |
| Jan. 0 | 3.14 | 33 | 61.5 | 21 | 9.54 | 50 | 70.6 | 8 | 40.11 | 33 | 38.2 | 20 | 43.54 | 44 | 16.9 | 23 |
| 10 | 3.47 | 30 | 59.4 | 19 | 10.04 | 47 | 69.8 | 2 | 40.44 | 32 | 36.2 | 18 | 43.98 | 41 | 19.2 | 27 |
| 20 | 3.77 | 28 | 57.5 | 18 | 10.51 | 43 | 69.6 | 4 | 40.76 | 29 | 34.4 | 15 | 44.39 | 37 | 21.9 | 30 |
| 30 | 4.05 | 24 | 55.7 | 15 | 10.94 | 37 | 70.0 | 10 | 41.05 | 25 | 32.9 | 12 | 44.76 | 32 | 24.9 | 31 |
| Febr. 9 | 4.29 | 19 | 54.2 | 12 | 11.31 | 30 | 71.0 | 14 | 41.30 | 21 | 31.7 | 8 | 45.08 | 26 | 28.0 | 34 |
| 19 | 4.48 | 16 | 53.0 | 9 | 11.61 | 23 | 72.4 | 18 | 41.51 | 17 | 30.9 | 6 | 45.34 | 21 | 31.4 | 33 |
| März 1 | 4.64 | 11 | 52.1 | 7 | 11.84 | 16 | 74.2 | 21 | 41.68 | 12 | 30.3 | 2 | 45.55 | 15 | 34.7 | 33 |
| 11 | 4.75 | 7 | 51.4 | 4 | 12.00 | 9 | 76.3 | 24 | 41.80 | 9 | 30.1 | 0 | 45.70 | 9 | 38.0 | 32 |
| 21 | 4.82 | 3 | 51.0 | 1 | 12.09 | 2 | 78.7 | 25 | 41.89 | 4 | 30.1 | 3 | 45.79 | 4 | 41.2 | 31 |
| 31 | 4.85 | 0 | 50.9 | 0 | 12.11 | 5 | 81.2 | 25 | 41.93 | 2 | 30.4 | 4 | 45.83 | 1 | 44.3 | 28 |
| April 10 | 4.85 | 2 | 50.9 | 2 | 12.06 | 10 | 83.7 | 23 | 41.95 | 2 | 30.8 | 6 | 45.82 | 6 | 47.1 | 26 |
| 20 | 4.83 | 5 | 51.1 | 4 | 11.96 | 15 | 86.0 | 22 | 41.93 | 4 | 31.4 | 7 | 45.76 | 9 | 49.7 | 22 |
| 30 | 4.78 | 7 | 51.5 | 4 | 11.81 | 18 | 88.2 | 19 | 41.89 | 6 | 32.1 | 8 | 45.67 | 12 | 51.9 | 19 |
| Mai 10 | 4.71 | 8 | 51.9 | 5 | 11.63 | 22 | 90.1 | 16 | 41.83 | 8 | 32.9 | 7 | 45.55 | 15 | 53.8 | 16 |
| 20 | 4.63 | 8 | 52.4 | 5 | 11.41 | 22 | 91.7 | 12 | 41.75 | 8 | 33.6 | 8 | 45.40 | 18 | 55.4 | 10 |
| 30 | 4.55 | 9 | 52.9 | 6 | 11.19 | 24 | 92.9 | 8 | 41.67 | 9 | 34.4 | 7 | 45.22 | 19 | 56.4 | 8 |
| Juni 9 | 4.46 | 9 | 53.5 | 6 | 10.95 | 24 | 93.7 | 3 | 41.58 | 10 | 35.1 | 7 | 45.03 | 21 | 57.2 | 2 |
| 19 | 4.37 | 9 | 54.1 | 6 | 10.71 | 22 | 94.0 | 2 | 41.48 | 9 | 35.8 | 5 | 44.82 | 21 | 57.4 | 1 |
| 29 | 4.28 | 9 | 54.7 | 6 | 10.49 | 22 | 93.8 | 7 | 41.39 | 9 | 36.3 | 5 | 44.61 | 21 | 57.3 | 6 |
| Juli 9 | 4.19 | 7 | 55.3 | 5 | 10.27 | 20 | 93.1 | 9 | 41.30 | 9 | 36.8 | 3 | 44.40 | 21 | 56.7 | 10 |
| 19 | 4.12 | 7 | 55.8 | 4 | 10.07 | 17 | 92.2 | 14 | 41.21 | 7 | 37.1 | 2 | 44.19 | 20 | 55.7 | 14 |
| 29 | 4.05 | 5 | 56.2 | 3 | 9.90 | 14 | 90.8 | 18 | 41.14 | 7 | 37.3 | 1 | 43.99 | 17 | 54.3 | 17 |
| Aug. 8 | 4.00 | 4 | 56.5 | 2 | 9.76 | 10 | 89.0 | 22 | 41.07 | 5 | 37.4 | 2 | 43.82 | 15 | 52.6 | 20 |
| 18 | 3.96 | 1 | 56.7 | 1 | 9.66 | 7 | 86.8 | 25 | 41.02 | 3 | 37.2 | 3 | 43.67 | 11 | 50.6 | 21 |
| 28 | 3.95 | 1 | 56.8 | 1 | 9.59 | 3 | 84.3 | 28 | 40.99 | 0 | 36.9 | 5 | 43.56 | 7 | 48.5 | 23 |
| Sept. 7 | 3.96 | 4 | 56.7 | 3 | 9.56 | 3 | 81.5 | 31 | 40.99 | 2 | 36.4 | 7 | 43.49 | 1 | 46.2 | 24 |
| 17 | 4.00 | 8 | 56.4 | 6 | 9.59 | 9 | 78.4 | 35 | 41.01 | 7 | 35.7 | 10 | 43.48 | 6 | 43.8 | 25 |
| 27 | [19] 4.08 | 12 | 55.8 | 8 | [20] 9.68 | 15 | 74.9 | 33 | [23] 41.08 | 10 | 34.7 | 12 | [21] 43.54 | 12 | 41.3 | 20 |
| Okt. 7 | 4.20 | 16 | 55.0 | 11 | 9.83 | 20 | 71.6 | 34 | 41.18 | 14 | 33.5 | 15 | 43.66 | 18 | 39.3 | 19 |
| 17 | 4.36 | 19 | 53.9 | 13 | 10.03 | 27 | 68.2 | 34 | 41.32 | 18 | 32.0 | 17 | 43.84 | 24 | 37.4 | 14 |
| 27 | 4.55 | 24 | 52.6 | 16 | 10.30 | 32 | 64.8 | 33 | 41.50 | 22 | 30.3 | 19 | 44.08 | 31 | 36.0 | 10 |
| Nov. 6 | 4.79 | 27 | 51.0 | 18 | 10.62 | 38 | 61.5 | 31 | 41.72 | 26 | 28.4 | 20 | 44.39 | 36 | 35.0 | 6 |
| 16 | 5.06 | 30 | 49.2 | 20 | 11.00 | 43 | 58.4 | 28 | 41.98 | 30 | 26.4 | 22 | 44.75 | 41 | 34.4 | 0 |
| 26 | 5.36 | 33 | 47.2 | 21 | 11.43 | 47 | 55.6 | 25 | 42.28 | 32 | 24.2 | 23 | 45.16 | 44 | 34.4 | 6 |
| Dez. 6 | 5.69 | 34 | 45.1 | 22 | 11.90 | 50 | 53.1 | 21 | 42.60 | 34 | 21.9 | 22 | 45.60 | 46 | 35.0 | 11 |
| 16 | 6.03 | 34 | 42.9 | 23 | 12.40 | 50 | 51.0 | 16 | 42.94 | 34 | 19.7 | 23 | 46.06 | 47 | 36.1 | 16 |
| 26 | 6.37 | 34 | 40.6 | 21 | 12.90 | 51 | 49.4 | 11 | 43.28 | 35 | 17.4 | 21 | 46.53 | 46 | 37.7 | 22 |
| 36 | 6.71 | | 38.5 | | 13.41 | | 48.3 | | 43.63 | | 15.3 | | 46.99 | | 39.9 | |
| Mittl. Ort | 3.56 | | 58.6 | | 9.28 | | 82.5 | | 40.56 | | 38.0 | | 44.44 | | 36.2 | |
| | 445) | | | | 447) | | | | 450) | | | | 452) | | | |

| 1911 | ε Corvi. $3^m.0$ | | | | 4 H. Draconis. $5^m.0$ | | | | δ Ursae maj. $3^m.4$ | | | | β Chamael. $4^m.4$ | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. − | | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. − | |
| | $12^h\ 5^m$ | | 22° 7′ | | $12^h\ 8^m$ | | 78° 6′ | | $12^h\ 11^m$ | | 57° 31′ | | $12^h\ 12^m$ | | 78° 48′ | |
| Jan. 0 | 32.01 | 35 | 18.3 | 24 | 4.47 | 121 | 23.2 | 3 | 1.79 | 53 | 23.9 | 8 | 64.21 | 120 | 41.0 | 18 |
| 10 | 32.36 | 32 | 20.7 | 25 | 5.68 | 116 | 22.9 | 4 | 2.32 | 51 | 23.1 | 3 | 65.41 | 112 | 42.8 | 23 |
| 20 | 32.68 | 30 | 23.2 | 25 | 6.84 | 107 | 23.3 | 10 | 2.83 | 47 | 22.8 | 4 | 66.53 | 101 | 45.1 | 28 |
| 30 | 32.98 | 25 | 25.7 | 25 | 7.91 | 96 | 24.3 | 17 | 3.30 | 42 | 23.2 | 9 | 67.54 | 86 | 47.9 | 32 |
| Febr. 9 | 33.23 | 22 | 28.2 | 24 | 8.87 | 79 | 26.0 | 21 | 3.72 | 36 | 24.1 | 14 | 68.40 | 72 | 51.1 | 35 |
| 19 | 33.45 | 17 | 30.6 | 22 | 9.66 | 61 | 28.1 | 25 | 4.08 | 28 | 25.5 | 18 | 69.12 | 55 | 54.6 | 37 |
| März 1 | 33.62 | 13 | 32.8 | 21 | 10.27 | 42 | 30.6 | 28 | 4.36 | 21 | 27.3 | 23 | 69.67 | 38 | 58.3 | 38 |
| 11 | 33.75 | 9 | 34.9 | 18 | 10.69 | 21 | 33.4 | 30 | 4.57 | 12 | 29.6 | 25 | 70.05 | 20 | 62.1 | 39 |
| 21 | 33.84 | 5 | 36.7 | 16 | 10.90 | 2 | 36.4 | 30 | 4.69 | 6 | 32.1 | 26 | 70.25 | 3 | 66.0 | 39 |
| 31 | 33.89 | 1 | 38.3 | 14 | 10.92 | 18 | 39.4 | 30 | 4.75 | 3 | 34.7 | 26 | 70.28 | 12 | 69.9 | 37 |
| April 10 | 33.90 | 1 | 39.7 | 12 | 10.74 | 36 | 42.4 | 28 | 4.72 | 8 | 37.3 | 26 | 70.16 | 29 | 73.6 | 35 |
| 20 | 33.89 | 4 | 40.9 | 9 | 10.38 | 51 | 45.2 | 25 | 4.64 | 14 | 39.9 | 23 | 69.87 | 43 | 77.1 | 33 |
| 30 | 33.85 | 6 | 41.8 | 6 | 9.87 | 64 | 47.7 | 21 | 4.50 | 19 | 42.2 | 21 | 69.44 | 57 | 80.4 | 29 |
| Mai 10 | 33.79 | 8 | 42.4 | 4 | 9.23 | 75 | 49.8 | 16 | 4.31 | 22 | 44.3 | 18 | 68.87 | 68 | 83.3 | 26 |
| 20 | 33.71 | 9 | 42.8 | 2 | 8.48 | 82 | 51.4 | 12 | 4.09 | 24 | 46.1 | 13 | 68.19 | 78 | 85.9 | 21 |
| 30 | 33.62 | 10 | 43.0 | 1 | 7.66 | 87 | 52.6 | 6 | 3.85 | 26 | 47.4 | 9 | 67.41 | 86 | 88.0 | 16 |
| Juni 9 | 33.52 | 11 | 42.9 | 3 | 6.79 | 89 | 53.2 | 1 | 3.59 | 27 | 48.3 | 5 | 66.55 | 93 | 89.6 | 11 |
| 19 | 33.41 | 11 | 42.6 | 5 | 5.90 | 88 | 53.3 | 5 | 3.32 | 27 | 48.8 | 0 | 65.62 | 96 | 90.7 | 5 |
| 29 | 33.30 | 11 | 42.1 | 8 | 5.02 | 85 | 52.8 | 11 | 3.05 | 26 | 48.8 | 4 | 64.66 | 97 | 91.2 | 0 |
| Juli 9 | 33.19 | 10 | 41.3 | 8 | 4.17 | 80 | 51.7 | 15 | 2.79 | 25 | 48.4 | 10 | 63.69 | 96 | 91.2 | 6 |
| 19 | 33.09 | 10 | 40.5 | 11 | 3.37 | 72 | 50.2 | 21 | 2.54 | 22 | 47.4 | 14 | 62.73 | 90 | 90.6 | 10 |
| 29 | 32.99 | 9 | 39.4 | 11 | 2.65 | 64 | 48.1 | 24 | 2.32 | 19 | 46.0 | 19 | 61.83 | 84 | 89.6 | 16 |
| Aug. 8 | 32.90 | 6 | 38.3 | 12 | 2.01 | 53 | 45.7 | 29 | 2.13 | 16 | 44.1 | 22 | 60.99 | 72 | 88.0 | 20 |
| 18 | 32.84 | 5 | 37.1 | 12 | 1.48 | 41 | 42.8 | 32 | 1.97 | 12 | 41.9 | 25 | 60.27 | 59 | 86.0 | 24 |
| 28 | 32.79 | 2 | 35.9 | 12 | 1.07 | 29 | 39.6 | 35 | 1.85 | 7 | 39.4 | 29 | 59.68 | 44 | 83.6 | 28 |
| Sept. 7 | 32.77 | 1 | 34.7 | 11 | 0.78 | 14 | 36.1 | 37 | 1.78 | 2 | 36.5 | 32 | 59.24 | 25 | 80.8 | 30 |
| 17 | 32.78 | 6 | 33.6 | 10 | 0.64 | 2 | 32.4 | 41 | 1.76 | 5 | 33.3 | 36 | 58.99 | 5 | 77.8 | 30 |
| 27 | [25] 32.84 | 10 | 32.6 | 6 | [25] 0.66 | 18 | 28.3 | 39 | [26] 1.81 | 10 | 29.7 | 35 | 58.94 | 20 | 74.8 | 32 |
| Okt. 7 | 32.94 | 14 | 32.0 | 4 | 0.84 | 34 | 24.4 | 39 | 1.91 | 17 | 26.2 | 36 | [27] 59.14 | 40 | 71.6 | 27 |
| 17 | 33.08 | 19 | 31.6 | 0 | 1.18 | 51 | 20.5 | 37 | 2.08 | 24 | 22.6 | 35 | 59.54 | 61 | 68.9 | 25 |
| 27 | 33.27 | 23 | 31.6 | 3 | 1.69 | 66 | 16.8 | 35 | 2.32 | 30 | 19.1 | 35 | 60.15 | 80 | 66.4 | 20 |
| Nov. 6 | 33.50 | 28 | 31.9 | 7 | 2.35 | 81 | 13.3 | 33 | 2.62 | 37 | 15.6 | 33 | 60.95 | 96 | 64.4 | 17 |
| 16 | 33.78 | 31 | 32.6 | 11 | 3.16 | 95 | 10.0 | 28 | 2.99 | 43 | 12.3 | 30 | 61.91 | 110 | 62.7 | 10 |
| 26 | 34.09 | 33 | 33.7 | 15 | 4.11 | 106 | 7.2 | 25 | 3.42 | 48 | 9.3 | 27 | 63.01 | 119 | 61.7 | 5 |
| Dez. 6 | 34.42 | 37 | 35.2 | 18 | 5.17 | 115 | 4.7 | 18 | 3.90 | 51 | 6.6 | 22 | 64.20 | 125 | 61.2 | 2 |
| 16 | 34.79 | 35 | 37.0 | 20 | 6.32 | 121 | 2.9 | 12 | 4.41 | 54 | 4.4 | 17 | 65.45 | 127 | 61.4 | 9 |
| 26 | 35.14 | 35 | 39.0 | 23 | 7.53 | 122 | 1.7 | 7 | 4.95 | 54 | 2.7 | 12 | 66.72 | 123 | 62.3 | 14 |
| 36 | 35.49 | | 41.3 | | 8.75 | | 1.0 | | 5.49 | | 1.5 | | 67.95 | | 63.7 | |
| Mittl. Ort | 32.71 | | 29.2 | | 2.52 | | 38.8 | | 1.61 | | 37.3 | | 66.31 | | 65.1 | |
| | 453) | | | | 454) | | | | 456) | | | | 459) | | | |

| 1911 | η Virginis. $3^m.7$. AR. | | Dekl. − | | α Crucis med. $1^m.0$. AR. | | Dekl. − | | 20 Comae. $6^m.0$. AR. | | Dekl. + | | δ Corvi. $2^m.8$. AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $12^h\ 15^m$ | | 0° 10′ | | $12^h\ 21^m$ | | 62° 36′ | | $12^h\ 25^m$ | | 21° 22′ | | $12^h\ 25^m$ | | 16° 1′ | |
| Jan. 0 | 20.51 | | 17.2 | | 37.33 | | 1.0 | | 14.57 | | 75.1 | | 14.66 | | 3.7 | |
| | | 34 | | 21 | | 58 | | 19 | | 36 | | 19 | | 34 | | 23 |
| 10 | 20.85 | | 19.3 | | 37.91 | | 2.9 | | 14.93 | | 73.2 | | 15.00 | | 6.0 | |
| | | 32 | | 20 | | 55 | | 25 | | 34 | | 15 | | 33 | | 24 |
| 20 | 21.17 | | 21.3 | | 38.46 | | 5.4 | | 15.27 | | 71.7 | | 15.33 | | 8.4 | |
| | | 29 | | 19 | | 50 | | 28 | | 31 | | 11 | | 30 | | 23 |
| 30 | 21.46 | | 23.2 | | 38.96 | | 8.2 | | 15.58 | | 70.6 | | 15.63 | | 10.7 | |
| | | 25 | | 16 | | 44 | | 31 | | 29 | | 7 | | 26 | | 22 |
| Febr. 9 | 21.71 | | 24.8 | | 39.40 | | 11.3 | | 15.87 | | 69.9 | | 15.89 | | 12.9 | |
| | | 23 | | 14 | | 36 | | 34 | | 24 | | 3 | | 23 | | 21 |
| 19 | 21.94 | | 26.2 | | 39.76 | | 14.7 | | 16.11 | | 69.6 | | 16.12 | | 15.0 | |
| | | 18 | | 11 | | 30 | | 36 | | 20 | | 0 | | 20 | | 19 |
| März 1 | 22.12 | | 27.3 | | 40.06 | | 18.3 | | 16.31 | | 69.6 | | 16.32 | | 16.9 | |
| | | 14 | | 8 | | 22 | | 36 | | 16 | | 4 | | 15 | | 17 |
| 11 | 22.26 | | 28.1 | | 40.28 | | 21.9 | | 16.47 | | 70.0 | | 16.47 | | 18.6 | |
| | | 9 | | 6 | | 15 | | 35 | | 11 | | 8 | | 10 | | 15 |
| 21 | 22.35 | | 28.7 | | 40.43 | | 25.4 | | 16.58 | | 70.8 | | 16.57 | | 20.1 | |
| | | 6 | | 3 | | 7 | | 35 | | 7 | | 9 | | 7 | | 13 |
| 31 | 22.41 | | 29.0 | | 40.50 | | 28.9 | | 16.65 | | 71.7 | | 16.64 | | 21.4 | |
| | | 3 | | 1 | | 0 | | 34 | | 4 | | 12 | | 4 | | 11 |
| April 10 | 22.44 | | 29.1 | | 40.50 | | 32.3 | | 16.69 | | 72.9 | | 16.68 | | 22.5 | |
| | | 0 | | 1 | | 6 | | 31 | | 0 | | 12 | | 1 | | 8 |
| 20 | 22.44 | | 29.0 | | 40.44 | | 35.4 | | 16.69 | | 74.1 | | 16.69 | | 23.3 | |
| | | 3 | | 3 | | 11 | | 28 | | 3 | | 14 | | 2 | | 6 |
| 30 | 22.41 | | 28.7 | | 40.33 | | 38.2 | | 16.66 | | 75.5 | | 16.67 | | 23.9 | |
| | | 4 | | 3 | | 17 | | 24 | | 6 | | 13 | | 4 | | 4 |
| Mai 10 | 22.37 | | 28.4 | | 40.16 | | 40.6 | | 16.60 | | 76.8 | | 16.63 | | 24.3 | |
| | | 6 | | 5 | | 22 | | 22 | | 7 | | 12 | | 6 | | 2 |
| 20 | 22.31 | | 27.9 | | 39.94 | | 42.8 | | 16.53 | | 78.0 | | 16.57 | | 24.5 | |
| | | 7 | | 5 | | 26 | | 17 | | 8 | | 11 | | 7 | | 0 |
| 30 | 22.24 | | 27.4 | | 39.68 | | 44.5 | | 16.45 | | 79.1 | | 16.50 | | 24.5 | |
| | | 9 | | 6 | | 29 | | 13 | | 10 | | 10 | | 9 | | 2 |
| Juni 9 | 22.15 | | 26.8 | | 39.39 | | 45.8 | | 16.35 | | 80.1 | | 16.41 | | 24.3 | |
| | | 9 | | 6 | | 32 | | 8 | | 10 | | 8 | | 9 | | 3 |
| 19 | 22.06 | | 26.2 | | 39.07 | | 46.6 | | 16.25 | | 80.9 | | 16.32 | | 24.0 | |
| | | 9 | | 6 | | 33 | | 3 | | 11 | | 6 | | 10 | | 5 |
| 29 | 21.97 | | 25.6 | | 38.74 | | 46.9 | | 16.14 | | 81.5 | | 16.22 | | 23.5 | |
| | | 9 | | 5 | | 34 | | 3 | | 11 | | 3 | | 10 | | 6 |
| Juli 9 | 21.88 | | 25.1 | | 38.40 | | 46.6 | | 16.03 | | 81.8 | | 16.12 | | 22.9 | |
| | | 9 | | 6 | | 34 | | 6 | | 10 | | 1 | | 11 | | 7 |
| 19 | 21.79 | | 24.5 | | 38.06 | | 46.0 | | 15.93 | | 81.9 | | 16.01 | | 22.2 | |
| | | 8 | | 5 | | 32 | | 12 | | 10 | | 1 | | 9 | | 8 |
| 29 | 21.71 | | 24.0 | | 37.74 | | 44.8 | | 15.83 | | 81.8 | | 15.92 | | 21.4 | |
| | | 8 | | 4 | | 31 | | 16 | | 9 | | 3 | | 9 | | 9 |
| Aug. 8 | 21.63 | | 23.6 | | 37.43 | | 43.2 | | 15.74 | | 81.5 | | 15.83 | | 20.5 | |
| | | 6 | | 3 | | 26 | | 20 | | 7 | | 7 | | 8 | | 9 |
| 18 | 21.57 | | 23.3 | | 37.17 | | 41.2 | | 15.67 | | 80.8 | | 15.75 | | 19.6 | |
| | | 4 | | 2 | | 22 | | 22 | | 6 | | 9 | | 6 | | 9 |
| 28 | 21.53 | | 23.1 | | 36.95 | | 39.0 | | 15.61 | | 79.9 | | 15.69 | | 18.7 | |
| | | 2 | | 0 | | 15 | | 25 | | 3 | | 11 | | 3 | | 9 |
| Sept. 7 | 21.51 | | 23.1 | | 36.80 | | 36.5 | | 15.58 | | 78.8 | | 15.66 | | 17.8 | |
| | | 1 | | 2 | | 8 | | 26 | | 0 | | 14 | | 0 | | 7 |
| 17 | 21.52 | | 23.3 | | 36.72 | | 33.9 | | 15.58 | | 77.4 | | 15.66 | | 17.1 | |
| | | 5 | | 4 | | 0 | | 27 | | 3 | | 17 | | 4 | | 5 |
| 27 | 21.57 | | 23.7 | | 36.72 | | 31.2 | | 15.61 | | 75.7 | | 15.70 | | 16.6 | |
| | | 9 | | 7 | | 11 | | 28 | | 8 | | 21 | | 8 | | 4 |
| Okt. 7 | [27] 21.66 | | 24.4 | | [29] 36.83 | | 28.4 | | [30] 15.69 | | 73.6 | | [30] 15.78 | | 16.2 | |
| | | 12 | | 9 | | 19 | | 24 | | 11 | | 21 | | 11 | | 0 |
| 17 | 21.78 | | 25.3 | | 37.02 | | 26.0 | | 15.80 | | 71.5 | | 15.89 | | 16.2 | |
| | | 17 | | 12 | | 29 | | 20 | | 17 | | 23 | | 17 | | 2 |
| 27 | 21.95 | | 26.5 | | 37.31 | | 24.0 | | 15.97 | | 69.2 | | 16.06 | | 16.4 | |
| | | 21 | | 14 | | 37 | | 17 | | 20 | | 25 | | 21 | | 6 |
| Nov. 6 | 22.16 | | 27.9 | | 37.68 | | 22.3 | | 16.17 | | 66.7 | | 16.27 | | 17.0 | |
| | | 25 | | 17 | | 44 | | 12 | | 25 | | 26 | | 25 | | 10 |
| 16 | 22.41 | | 29.6 | | 38.12 | | 21.1 | | 16.42 | | 64.1 | | 16.52 | | 18.0 | |
| | | 29 | | 19 | | 52 | | 6 | | 29 | | 25 | | 29 | | 13 |
| 26 | 22.70 | | 31.5 | | 38.64 | | 20.5 | | 16.71 | | 61.6 | | 16.81 | | 19.3 | |
| | | 31 | | 20 | | 56 | | 1 | | 32 | | 26 | | 33 | | 16 |
| Dez. 6 | 23.01 | | 33.5 | | 39.20 | | 20.4 | | 17.03 | | 59.0 | | 17.14 | | 20.9 | |
| | | 34 | | 22 | | 59 | | 6 | | 34 | | 25 | | 34 | | 18 |
| 16 | 23.35 | | 35.7 | | 39.79 | | 21.0 | | 17.37 | | 56.5 | | 17.48 | | 22.7 | |
| | | 34 | | 23 | | 61 | | 11 | | 36 | | 23 | | 35 | | 19 |
| 26 | 23.69 | | 38.0 | | 40.40 | | 22.1 | | 17.73 | | 54.2 | | 17.83 | | 24.6 | |
| | | 34 | | 22 | | 60 | | 18 | | 36 | | 20 | | 34 | | 22 |
| 36 | 24.03 | | 40.2 | | 41.00 | | 23.9 | | 18.09 | | 52.2 | | 18.17 | | 26.8 | |
| Mittl. Ort | 21.12 | | 20.2 | | 38.68 | | 22.6 | | 15.07 | | 79.8 | | 15.44 | | 12.1 | |
| | 460) | | | | 462) | | | | 466) | | | | 465) | | | |

| 1911 | 8 Canum ven. 4ᵐ.3. AR. | | Dekl. + | | β Corvi. 2ᵐ.6. AR. | | Dekl. − | | κ Draconis. 3ᵐ.6. AR. | | Dekl. + | | 24 Comae seq. 5ᵐ.1. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $12^h\,29^m$ | | 41° 49′ | | $12^h\,29^m$ | | 22° 54′ | | $12^h\,29^m$ | | 70° 16′ | | $12^h\,30^m$ | | 18° 51′ | |
| Jan. 0 | 30.85 | 42 | 76.7 | 15 | 41.67 | 36 | 6.3 | 22 | 41.97 | 79 | 27.6 | 8 | 39.45 | 35 | 56.8 | 19 |
| 10 | 31.27 | 40 | 75.2 | 9 | 42.03 | 34 | 8.5 | 24 | 42.76 | 76 | 26.8 | 1 | 39.80 | 34 | 54.9 | 16 |
| 20 | 31.67 | 37 | 74.3 | 4 | 42.37 | 31 | 10.9 | 25 | 43.52 | 72 | 26.7 | 6 | 40.14 | 31 | 53.3 | 12 |
| 30 | 32.04 | 34 | 73.9 | 1 | 42.68 | 27 | 13.4 | 24 | 44.24 | 64 | 27.3 | 11 | 40.45 | 28 | 52.1 | 9 |
| Febr. 9 | 32.38 | 29 | 74.0 | 6 | 42.95 | 24 | 15.8 | 23 | 44.88 | 56 | 28.4 | 17 | 40.73 | 24 | 51.2 | 5 |
| 19 | 32.67 | 24 | 74.6 | 11 | 43.19 | 20 | 18.1 | 23 | 45.44 | 44 | 30.1 | 21 | 40.97 | 21 | 50.7 | 1 |
| März 1 | 32.91 | 18 | 75.7 | 15 | 43.39 | 16 | 20.4 | 20 | 45.88 | 34 | 32.2 | 26 | 41.18 | 16 | 50.6 | 3 |
| 11 | 33.09 | 13 | 77.2 | 18 | 43.55 | 12 | 22.4 | 19 | 46.22 | 21 | 34.8 | 28 | 41.34 | 12 | 50.9 | 6 |
| 21 | 33.22 | 8 | 79.0 | 20 | 43.67 | 7 | 24.3 | 17 | 46.43 | 9 | 37.6 | 29 | 41.46 | 7 | 51.5 | 8 |
| 31 | 33.30 | 2 | 81.0 | 21 | 43.74 | 5 | 26.0 | 14 | 46.52 | 3 | 40.5 | 29 | 41.53 | 4 | 52.3 | 10 |
| April 10 | 33.32 | 2 | 83.1 | 22 | 43.79 | 1 | 27.4 | 12 | 46.49 | 13 | 43.4 | 29 | 41.57 | 1 | 53.3 | 12 |
| 20 | 33.30 | 6 | 85.3 | 22 | 43.80 | 2 | 28.6 | 10 | 46.36 | 24 | 46.3 | 26 | 41.58 | 2 | 54.5 | 12 |
| 30 | 33.24 | 9 | 87.5 | 19 | 43.78 | 4 | 29.6 | 8 | 46.12 | 32 | 48.9 | 23 | 41.56 | 5 | 55.7 | 12 |
| Mai 10 | 33.15 | 12 | 89.4 | 18 | 43.74 | 6 | 30.4 | 5 | 45.80 | 38 | 51.2 | 20 | 41.51 | 6 | 56.9 | 12 |
| 20 | 33.03 | 13 | 91.2 | 15 | 43.68 | 7 | 30.9 | 3 | 45.42 | 44 | 53.2 | 15 | 41.45 | 8 | 58.1 | 11 |
| 30 | 32.90 | 16 | 92.7 | 12 | 43.61 | 9 | 31.2 | 0 | 44.98 | 48 | 54.7 | 10 | 41.37 | 9 | 59.2 | 9 |
| Juni 9 | 32.74 | 16 | 93.9 | 8 | 43.52 | 10 | 31.2 | 1 | 44.50 | 49 | 55.7 | 5 | 41.28 | 10 | 60.1 | 8 |
| 19 | 32.58 | 16 | 94.7 | 4 | 43.42 | 11 | 31.1 | 4 | 44.01 | 51 | 56.2 | 1 | 41.18 | 11 | 60.9 | 7 |
| 29 | 32.42 | 17 | 95.1 | 0 | 43.31 | 11 | 30.7 | 6 | 43.50 | 49 | 56.1 | 6 | 41.07 | 10 | 61.6 | 4 |
| Juli 9 | 32.25 | 16 | 95.1 | 3 | 43.20 | 11 | 30.1 | 7 | 43.01 | 48 | 55.5 | 10 | 40.97 | 10 | 62.0 | 2 |
| 19 | 32.09 | 15 | 94.8 | 8 | 43.09 | 11 | 29.4 | 9 | 42.53 | 45 | 54.5 | 16 | 40.87 | 10 | 62.2 | 0 |
| 29 | 31.94 | 13 | 94.0 | 11 | 42.98 | 10 | 28.5 | 11 | 42.08 | 40 | 52.9 | 21 | 40.77 | 9 | 62.2 | 3 |
| Aug. 8 | 31.81 | 12 | 92.9 | 14 | 42.88 | 9 | 27.4 | 11 | 41.68 | 35 | 50.8 | 24 | 40.68 | 8 | 61.9 | 5 |
| 18 | 31.69 | 9 | 91.5 | 18 | 42.79 | 7 | 26.3 | 12 | 41.33 | 29 | 48.4 | 29 | 40.60 | 5 | 61.4 | 8 |
| 28 | 31.60 | 6 | 89.7 | 22 | 42.72 | 4 | 25.1 | 11 | 41.04 | 21 | 45.5 | 32 | 40.55 | 3 | 60.6 | 10 |
| Sept. 7 | 31.54 | 2 | 87.5 | 24 | 42.68 | 1 | 24.0 | 11 | 40.83 | 13 | 42.3 | 35 | 40.52 | 0 | 59.6 | 12 |
| 17 | 31.52 | 1 | 85.1 | 27 | 42.67 | 3 | 22.9 | 9 | 40.70 | 4 | 38.8 | 36 | 40.52 | 1 | 58.4 | 15 |
| 27 | 31.53 | 7 | 82.4 | 32 | 42.70 | 8 | 22.0 | 8 | 40.66 | 7 | 35.2 | 42 | 40.53 | 7 | 56.9 | 19 |
| Okt. 7 | [1] 31.60 | 12 | 79.2 | 31 | [1] 42.78 | 12 | 21.2 | 5 | [1] 40.73 | 16 | 31.0 | 38 | [2] 40.60 | 11 | 55.0 | 20 |
| 17 | 31.72 | 17 | 76.1 | 31 | 42.90 | 16 | 20.7 | 1 | 40.89 | 27 | 27.2 | 38 | 40.71 | 16 | 53.0 | 22 |
| 27 | 31.89 | 22 | 73.0 | 32 | 43.06 | 22 | 20.6 | 2 | 41.16 | 38 | 23.4 | 37 | 40.87 | 20 | 50.8 | 24 |
| Nov. 6 | 32.11 | 27 | 69.8 | 32 | 43.28 | 26 | 20.8 | 6 | 41.54 | 48 | 19.7 | 35 | 41.07 | 24 | 48.4 | 25 |
| 16 | 32.38 | 32 | 66.6 | 31 | 43.54 | 29 | 21.4 | 9 | 42.02 | 57 | 16.2 | 31 | 41.31 | 28 | 45.9 | 25 |
| 26 | 32.70 | 36 | 63.5 | 28 | 43.83 | 33 | 22.3 | 12 | 42.59 | 65 | 13.1 | 28 | 41.59 | 31 | 43.4 | 26 |
| Dez. 6 | 33.06 | 39 | 60.7 | 25 | 44.16 | 35 | 23.5 | 17 | 43.24 | 72 | 10.3 | 23 | 41.90 | 34 | 40.8 | 24 |
| 16 | 33.45 | 41 | 58.2 | 22 | 44.51 | 36 | 25.2 | 20 | 43.96 | 76 | 8.0 | 17 | 42.24 | 35 | 38.4 | 23 |
| 26 | 33.86 | 42 | 56.0 | 17 | 44.87 | 36 | 27.2 | 22 | 44.72 | 77 | 6.3 | 11 | 42.59 | 35 | 36.1 | 21 |
| 36 | 34.28 | | 54.3 | | 45.23 | | 29.4 | | 45.49 | | 5.2 | | 42.94 | | 34.0 | |
| Mittl. Ort | 31.15 | | 87.4 | | 42.54 | | 16.9 | | 41.41 | | 43.3 | | 40.00 | | 60.8 | |
| | 470) | | | | 471) | | | | 472) | | | | 473) | | | |

| 1911 | α Muscae. $2^m.8$. AR. | | Dekl. — | | γ Centauri. $2^m.3$. AR. | | Dekl. — | | 76 Ursae maj. $6^m.2$. AR. | | Dekl. + | | β Crucis. $1^m.4$. AR. | | Dekl. — | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $12^h 31^m$ | | 68° 38′ | | $12^h 36^m$ | | 48° 27′ | | $12^h 37^m$ | | 63° 11′ | | $12^h 42^m$ | | 59° 11′ | |
| Jan. 0 | 50.20 | 72 | 20.8 | 17 | 34.90 | 45 | 57.9 | 21 | 41.00 | 61 | 50.5 | 10 | 29.22 | 54 | 48.1 | 17 |
| 10 | 50.92 | 67 | 22.5 | 22 | 35.35 | 42 | 60.0 | 23 | 41.61 | 60 | 49.5 | 5 | 29.76 | 53 | 49.8 | 22 |
| 20 | 51.59 | 62 | 24.7 | 27 | 35.77 | 40 | 62.3 | 27 | 42.21 | 57 | 49.0 | —3 | 30.29 | 48 | 52.0 | 27 |
| 30 | 52.21 | 55 | 27.4 | 31 | 36.17 | 35 | 65.0 | 29 | 42.78 | 51 | 49.3 | 8 | 30.77 | 44 | 54.7 | 29 |
| Febr. 9 | 52.76 | 47 | 30.5 | 33 | 36.52 | 30 | 67.9 | 31 | 43.29 | 45 | 50.1 | 14 | 31.21 | 38 | 57.6 | 32 |
| 19 | 53.23 | 37 | 33.8 | 36 | 36.82 | 26 | 71.0 | 31 | 43.74 | 37 | 51.5 | 19 | 31.59 | 31 | 60.8 | 34 |
| März 1 | 53.60 | 30 | 37.4 | 36 | 37.08 | 19 | 74.1 | 32 | 44.11 | 28 | 53.4 | 23 | 31.90 | 25 | 64.2 | 34 |
| 11 | 53.90 | 20 | 41.0 | 37 | 37.27 | 15 | 77.3 | 31 | 44.39 | 19 | 55.7 | 25 | 32.15 | 18 | 67.6 | 34 |
| 21 | 54.10 | 11 | 44.7 | 37 | 37.42 | 9 | 80.4 | 29 | 44.58 | 10 | 58.2 | 27 | 32.33 | 12 | 71.0 | 34 |
| 31 | 54.21 | 2 | 48.4 | 35 | 37.51 | 5 | 83.3 | 28 | 44.68 | 1 | 60.9 | 29 | 32.45 | 6 | 74.4 | 32 |
| April 10 | 54.23 | —6 | 51.9 | 33 | 37.56 | 0 | 86.1 | 26 | 44.69 | —6 | 63.8 | 28 | 32.51 | 0 | 77.6 | 30 |
| 20 | 54.17 | 14 | 55.2 | 31 | 37.56 | 3 | 88.7 | 23 | 44.63 | 14 | 66.6 | 26 | 32.51 | 6 | 80.6 | 28 |
| 30 | 54.03 | 21 | 58.3 | 28 | 37.53 | 8 | 91.0 | 20 | 44.49 | 21 | 69.2 | 24 | 32.45 | 11 | 83.4 | 25 |
| Mai 10 | 53.82 | 28 | 61.1 | 24 | 37.45 | 10 | 93.0 | 17 | 44.28 | 25 | 71.6 | 20 | 32.34 | 15 | 85.9 | 22 |
| 20 | 53.54 | 33 | 63.5 | 20 | 37.35 | 13 | 94.7 | 13 | 44.03 | 29 | 73.6 | 17 | 32.19 | 19 | 88.1 | 18 |
| 30 | 53.21 | 38 | 65.5 | 16 | 37.22 | 16 | 96.0 | 10 | 43.74 | 33 | 75.3 | 12 | 32.00 | 23 | 89.9 | 13 |
| Juni 9 | 52.83 | 42 | 67.1 | 10 | 37.06 | 18 | 97.0 | 5 | 43.41 | 34 | 76.5 | 7 | 31.77 | 25 | 91.2 | 9 |
| 19 | 52.41 | 45 | 68.1 | 6 | 36.88 | 19 | 97.5 | 1 | 43.07 | 35 | 77.2 | 1 | 31.52 | 28 | 92.1 | 5 |
| 29 | 51.96 | 46 | 68.7 | 0 | 36.69 | 20 | 97.6 | —2 | 42.72 | 35 | 77.3 | —3 | 31.24 | 29 | 92.6 | —1 |
| Juli 9 | 51.50 | 45 | 68.7 | 5 | 36.49 | 20 | 97.4 | 7 | 42.37 | 33 | 77.0 | 8 | 30.95 | 30 | 92.5 | 4 |
| 19 | 51.05 | 45 | 68.2 | 10 | 36.29 | 20 | 96.7 | 11 | 42.04 | 32 | 76.2 | 13 | 30.65 | 29 | 92.1 | 10 |
| 29 | 50.60 | 42 | 67.2 | 14 | 36.09 | 20 | 95.6 | 13 | 41.72 | 29 | 74.9 | 18 | 30.36 | 27 | 91.1 | 13 |
| Aug. 8 | 50.18 | 37 | 65.8 | 19 | 35.89 | 18 | 94.3 | 17 | 41.43 | 26 | 73.1 | 22 | 30.09 | 26 | 89.8 | 18 |
| 18 | 49.81 | 31 | 63.9 | 22 | 35.71 | 14 | 92.6 | 19 | 41.17 | 21 | 70.9 | 26 | 29.83 | 21 | 88.0 | 20 |
| 28 | 49.50 | 24 | 61.7 | 25 | 35.57 | 9 | 90.7 | 21 | 40.96 | 15 | 68.3 | 29 | 29.62 | 16 | 86.0 | 23 |
| Sept. 7 | 49.26 | 14 | 59.2 | 27 | 35.48 | 4 | 88.6 | 22 | 40.81 | 11 | 65.4 | 32 | 29.46 | 9 | 83.7 | 26 |
| 17 | 49.12 | 3 | 56.5 | 28 | 35.44 | —1 | 86.4 | 21 | 40.70 | 3 | 62.2 | 35 | 29.37 | 3 | 81.1 | 24 |
| 27 | 49.09 | —8 | 53.7 | 30 | 35.45 | 7 | 84.3 | 23 | 40.67 | —5 | 58.7 | 40 | 29.34 | —6 | 78.7 | 27 |
| Okt. 7 | 49.17 | 20 | 50.7 | 26 | 35.52 | 13 | 82.0 | 18 | 40.72 | 12 | 54.7 | 37 | 29.40 | 15 | 76.0 | 23 |
| 17 | 49.37 | 32 | 48.1 | 23 | 35.65 | 20 | 80.2 | 15 | 40.84 | 20 | 51.0 | 38 | 29.55 | 23 | 73.7 | 21 |
| 27 | 49.69 | 43 | 45.8 | 20 | 35.85 | 26 | 78.7 | 12 | 41.04 | 29 | 47.2 | 36 | 29.78 | 30 | 71.6 | 16 |
| Nov. 6 | 50.12 | 52 | 43.8 | 15 | 36.11 | 32 | 77.5 | 7 | 41.33 | 37 | 43.6 | 36 | 30.08 | 39 | 70.0 | 13 |
| 16 | 50.64 | 61 | 42.3 | 9 | 36.43 | 38 | 76.8 | 3 | 41.70 | 44 | 40.0 | 32 | 30.47 | 45 | 68.7 | 7 |
| 26 | 51.25 | 67 | 41.4 | 4 | 36.81 | 41 | 76.5 | —3 | 42.14 | 50 | 36.8 | 29 | 30.92 | 51 | 68.0 | 2 |
| Dez. 6 | 51.92 | 72 | 41.0 | —2 | 37.22 | 45 | 76.8 | 8 | 42.64 | 56 | 33.9 | 25 | 31.43 | 54 | 67.8 | —4 |
| 16 | 52.64 | 74 | 41.2 | 8 | 37.67 | 45 | 77.6 | 13 | 43.20 | 59 | 31.4 | 19 | 31.97 | 55 | 68.2 | 10 |
| 26 | 53.38 | 73 | 42.0 | 15 | 38.12 | 46 | 78.9 | 18 | 43.79 | 61 | 29.5 | 14 | 32.52 | 56 | 69.2 | 15 |
| 36 | 54.11 | | 43.5 | | 38.58 | | 80.7 | | 44.40 | | 28.1 | | 33.08 | | 70.7 | |
| Mittl. Ort | 51.96 | | 43.2 | | 36.13 | | 76.0 | | 40.89 | | 65.7 | | 30.76 | | 68.5 | |
| | 474) | | | | 476) | | | | 478) | | | | 481) | | | |

| 1911 | η Centauri. 4ᵐ.4. AR. | Diff. | η Centauri. Dekl. − | Diff. | ε Ursae maj. 1ᵐ.7. AR. | Diff. | ε Ursae maj. Dekl. + | Diff. | δ Virginis. 3ᵐ.4. AR. | Diff. | δ Virginis. Dekl. + | Diff. | 12Can.ven.sq.2ᵐ.8. AR. | Diff. | 12Can.ven.sq. Dekl. + | Diff. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 12ʰ 48ᵐ | | 39° 41′ | | 12ʰ 50ᵐ | | 56° 25′ | | 12ʰ 51ᵐ | | 3° 52′ | | 12ʰ 51ᵐ | | 38° 47′ | |
| Jan. 0 | 28.94 | 40 | 27.0 | 20 | 6.83 | 52 | 79.5 | 14 | 6.40 | 34 | 51.7 | 22 | 51.51 | 41 | 45.3 | 18 |
| 10 | 29.34 | 39 | 29.0 | 22 | 7.35 | 51 | 78.1 | 7 | 6.74 | 33 | 49.5 | 20 | 51.92 | 39 | 43.5 | 12 |
| 20 | 29.73 | 36 | 31.2 | 26 | 7.86 | 49 | 77.4 | 2 | 7.07 | 30 | 47.5 | 17 | 52.31 | 37 | 42.3 | 7 |
| 30 | 30.09 | 33 | 33.8 | 27 | 8.35 | 44 | 77.2 | 5 | 7.37 | 28 | 45.8 | 15 | 52.68 | 34 | 41.6 | 2 |
| Febr. 9 | 30.42 | 29 | 36.5 | 28 | 8.79 | 39 | 77.7 | 10 | 7.65 | 25 | 44.3 | 12 | 53.02 | 30 | 41.4 | 3 |
| 19 | 30.71 | 24 | 39.3 | 28 | 9.18 | 34 | 78.7 | 16 | 7.90 | 22 | 43.1 | 10 | 53.32 | 25 | 41.7 | 8 |
| März 1 | 30.95 | 20 | 42.1 | 28 | 9.52 | 26 | 80.3 | 20 | 8.12 | 17 | 42.1 | 6 | 53.57 | 21 | 42.5 | 13 |
| 11 | 31.15 | 16 | 44.9 | 27 | 9.78 | 19 | 82.3 | 23 | 8.29 | 13 | 41.5 | 3 | 53.78 | 15 | 43.8 | 16 |
| 21 | 31.31 | 10 | 47.6 | 26 | 9.97 | 11 | 84.6 | 25 | 8.42 | 10 | 41.2 | 1 | 53.93 | 11 | 45.4 | 18 |
| 31 | 31.41 | 7 | 50.2 | 23 | 10.08 | 5 | 87.1 | 27 | 8.52 | 6 | 41.1 | 2 | 54.04 | 5 | 47.2 | 21 |
| April 10 | 31.48 | 3 | 52.5 | 21 | 10.13 | 2 | 89.8 | 27 | 8.58 | 3 | 41.3 | 4 | 54.09 | 1 | 49.3 | 21 |
| 20 | 31.51 | 1 | 54.6 | 19 | 10.11 | 8 | 92.5 | 26 | 8.61 | 0 | 41.7 | 5 | 54.10 | 2 | 51.4 | 21 |
| 30 | 31.50 | 4 | 56.5 | 17 | 10.03 | 14 | 95.1 | 24 | 8.61 | 2 | 42.2 | 6 | 54.08 | 7 | 53.5 | 21 |
| Mai 10 | 31.46 | 6 | 58.2 | 14 | 9.89 | 17 | 97.5 | 21 | 8.59 | 4 | 42.8 | 6 | 54.01 | 9 | 55.6 | 18 |
| 20 | 31.40 | 10 | 59.6 | 10 | 9.72 | 21 | 99.6 | 18 | 8.55 | 5 | 43.4 | 7 | 53.92 | 11 | 57.4 | 16 |
| 30 | 31.30 | 11 | 60.6 | 8 | 9.51 | 23 | 101.4 | 13 | 8.50 | 7 | 44.1 | 7 | 53.81 | 13 | 59.0 | 14 |
| Juni 9 | 31.19 | 13 | 61.4 | 4 | 9.28 | 25 | 102.7 | 9 | 8.43 | 8 | 44.8 | 7 | 53.68 | 14 | 60.4 | 10 |
| 19 | 31.06 | 14 | 61.8 | 0 | 9.03 | 27 | 103.6 | 5 | 8.35 | 9 | 45.5 | 7 | 53.54 | 15 | 61.4 | 6 |
| 29 | 30.92 | 16 | 61.8 | 3 | 8.76 | 27 | 104.1 | 0 | 8.26 | 10 | 46.2 | 6 | 53.39 | 16 | 62.0 | 3 |
| Juli 9 | 30.76 | 16 | 61.5 | 6 | 8.49 | 26 | 104.1 | 5 | 8.16 | 10 | 46.8 | 4 | 53.23 | 16 | 62.3 | 1 |
| 19 | 30.60 | 16 | 60.9 | 9 | 8.23 | 25 | 103.6 | 10 | 8.06 | 10 | 47.2 | 4 | 53.07 | 15 | 62.2 | 5 |
| 29 | 30.44 | 15 | 60.0 | 12 | 7.98 | 23 | 102.6 | 15 | 7.96 | 9 | 47.6 | 3 | 52.92 | 14 | 61.7 | 9 |
| Aug. 8 | 30.29 | 14 | 58.8 | 14 | 7.75 | 21 | 101.1 | 18 | 7.87 | 9 | 47.9 | 1 | 52.78 | 13 | 60.8 | 12 |
| 18 | 30.15 | 11 | 57.4 | 16 | 7.54 | 18 | 99.3 | 23 | 7.78 | 7 | 48.0 | 0 | 52.65 | 11 | 59.6 | 16 |
| 28 | 30.04 | 9 | 55.8 | 18 | 7.36 | 14 | 97.0 | 26 | 7.71 | 5 | 48.0 | 2 | 52.54 | 8 | 58.0 | 19 |
| Sept. 7 | 29.95 | 5 | 54.0 | 18 | 7.22 | 9 | 94.4 | 30 | 7.66 | 2 | 47.8 | 4 | 52.46 | 5 | 56.1 | 22 |
| 17 | 29.90 | 0 | 52.2 | 18 | 7.13 | 4 | 91.4 | 32 | 7.64 | 1 | 47.4 | 7 | 52.41 | 1 | 53.9 | 25 |
| 27 | 29.90 | 6 | 50.4 | 17 | 7.09 | 2 | 88.2 | 34 | 7.65 | 4 | 46.7 | 8 | 52.40 | 3 | 51.4 | 27 |
| Okt. 7 | 29.96 | 11 | 48.7 | 15 | 7.11 | 9 | 84.8 | 40 | 7.69 | 10 | 45.9 | 12 | 52.43 | 9 | 48.7 | 33 |
| 17 | [7]30.07 | 16 | 47.2 | 11 | [7]7.20 | 16 | 80.8 | 37 | [7]7.79 | 13 | 44.7 | 14 | [8]52.52 | 14 | 45.4 | 31 |
| 27 | 30.23 | 23 | 46.1 | 8 | 7.36 | 23 | 77.1 | 36 | 7.92 | 18 | 43.3 | 17 | 52.66 | 19 | 42.3 | 32 |
| Nov. 6 | 30.46 | 28 | 45.3 | 4 | 7.59 | 29 | 73.5 | 35 | 8.10 | 22 | 41.6 | 18 | 52.85 | 24 | 39.1 | 32 |
| 16 | 30.74 | 32 | 44.9 | 0 | 7.88 | 37 | 70.0 | 34 | 8.32 | 26 | 39.8 | 21 | 53.09 | 29 | 35.9 | 31 |
| 26 | 31.06 | 37 | 44.9 | 6 | 8.25 | 42 | 66.6 | 30 | 8.58 | 30 | 37.7 | 21 | 53.38 | 33 | 32.8 | 30 |
| Dez. 6 | 31.43 | 39 | 45.5 | 9 | 8.67 | 46 | 63.6 | 27 | 8.88 | 32 | 35.6 | 23 | 53.71 | 37 | 29.8 | 27 |
| 16 | 31.82 | 41 | 46.4 | 14 | 9.13 | 50 | 60.9 | 22 | 9.20 | 33 | 33.3 | 23 | 54.08 | 39 | 27.1 | 24 |
| 26 | 32.23 | 41 | 47.8 | 19 | 9.63 | 52 | 58.7 | 17 | 9.53 | 34 | 31.0 | 22 | 54.47 | 40 | 24.7 | 20 |
| 36 | 32.64 | | 49.7 | | 10.15 | | 57.0 | | 9.87 | | 28.8 | | 54.87 | | 22.7 | |
| Mittl. Ort | 30.13 | | 42.3 | | 7.04 | | 93.9 | | 7.19 | | 51.1 | | 52.00 | | 55.8 | |
| | 482) | | | | 483) | | | | 484) | | | | 485) | | | |

| 1911 | 8 Draconis. $5^m.2$. | | | | ε Virginis. $2^m.8$. | | | | ϑ Virginis. $4^m.3$. | | | | 43 Comae. $4^m.2$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. − | | AR. | | Dekl. + | |
| | $12^h\ 51^m$ | | 65° 54′ | | $12^h\ 57^m$ | | 11° 25′ | | $13^h\ 5^m$ | | 5° 3′ | | $13^h\ 7^m$ | | 28° 19′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | | s | | ″ | |
| Jan. 0 | 56.21 | 66 | 60.3 | 12 | 44.03 | 34 | 72.1 | 21 | 19.48 | 34 | 47.5 | 21 | 42.59 | 36 | 36.6 | 20 |
| 10 | 56.87 | 65 | 59.1 | 5 | 44.37 | 33 | 70.0 | 19 | 19.82 | 34 | 49.6 | 21 | 42.95 | 36 | 34.6 | 16 |
| 20 | 57.52 | 62 | 58.6 | 1 | 44.70 | 32 | 68.1 | 16 | 20.16 | 31 | 51.7 | 20 | 43.31 | 35 | 33.0 | 11 |
| 30 | 58.14 | 58 | 58.7 | 7 | 45.02 | 29 | 66.5 | 13 | 20.47 | 29 | 53.7 | 18 | 43.66 | 32 | 31.9 | 5 |
| Febr. 9 | 58.72 | 50 | 59.4 | 14 | 45.31 | 25 | 65.2 | 9 | 20.76 | 26 | 55.5 | 16 | 43.98 | 28 | 31.4 | 3 |
| 19 | 59.22 | 43 | 60.8 | 18 | 45.56 | 22 | 64.3 | 5 | 21.02 | 22 | 57.1 | 14 | 44.26 | 24 | 31.1 | 2 |
| März 1 | 59.65 | 34 | 62.6 | 23 | 45.78 | 18 | 63.8 | 2 | 21.24 | 18 | 58.5 | 11 | 44.50 | 21 | 31.3 | 7 |
| 11 | 59.99 | 23 | 64.9 | 26 | 45.96 | 14 | 63.6 | 1 | 21.42 | 15 | 59.6 | 8 | 44.71 | 16 | 32.0 | 11 |
| 21 | 60.22 | 13 | 67.5 | 28 | 46.10 | 11 | 63.7 | 4 | 21.57 | 11 | 60.4 | 6 | 44.87 | 11 | 33.1 | 13 |
| 31 | 60.35 | 4 | 70.3 | 29 | 46.21 | 7 | 64.1 | 6 | 21.68 | 8 | 61.0 | 4 | 44.98 | 8 | 34.4 | 16 |
| April 10 | 60.39 | 5 | 73.2 | 29 | 46.28 | 3 | 64.7 | 8 | 21.76 | 5 | 61.4 | 1 | 45.06 | 3 | 36.0 | 17 |
| 20 | 60.34 | 14 | 76.1 | 27 | 46.31 | 1 | 65.5 | 10 | 21.81 | 2 | 61.5 | 0 | 45.09 | 0 | 37.7 | 18 |
| 30 | 60.20 | 21 | 78.8 | 25 | 46.32 | 2 | 66.5 | 10 | 21.83 | 0 | 61.5 | 2 | 45.09 | 2 | 39.5 | 18 |
| Mai 10 | 59.99 | 27 | 81.3 | 22 | 46.30 | 4 | 67.5 | 10 | 21.83 | 3 | 61.3 | 2 | 45.07 | 6 | 41.3 | 17 |
| 20 | 59.72 | 32 | 83.5 | 17 | 46.26 | 5 | 68.5 | 9 | 21.80 | 4 | 61.1 | 4 | 45.01 | 7 | 43.0 | 15 |
| 30 | 59.40 | 36 | 85.2 | 14 | 46.21 | 8 | 69.4 | 9 | 21.76 | 6 | 60.7 | 5 | 44.94 | 10 | 44.5 | 14 |
| Juni 9 | 59.04 | 38 | 86.6 | 8 | 46.13 | 8 | 70.3 | 8 | 21.70 | 7 | 60.2 | 5 | 44.84 | 11 | 45.9 | 11 |
| 19 | 58.66 | 41 | 87.4 | 3 | 46.05 | 9 | 71.1 | 8 | 21.63 | 9 | 59.7 | 5 | 44.73 | 12 | 47.0 | 8 |
| 29 | 58.25 | 40 | 87.7 | 2 | 45.96 | 10 | 71.9 | 5 | 21.54 | 10 | 59.2 | 6 | 44.61 | 12 | 47.8 | 5 |
| Juli 9 | 57.85 | 40 | 87.5 | 7 | 45.86 | 10 | 72.4 | 4 | 21.44 | 9 | 58.6 | 5 | 44.49 | 13 | 48.3 | 3 |
| 19 | 57.45 | 38 | 86.8 | 12 | 45.76 | 11 | 72.8 | 3 | 21.35 | 10 | 58.1 | 6 | 44.36 | 13 | 48.6 | 1 |
| 29 | 57.07 | 35 | 85.6 | 17 | 45.65 | 10 | 73.1 | 0 | 21.25 | 10 | 57.5 | 5 | 44.23 | 13 | 48.5 | 4 |
| Aug. 8 | 56.72 | 32 | 83.9 | 22 | 45.55 | 9 | 73.1 | 1 | 21.15 | 10 | 57.0 | 4 | 44.10 | 12 | 48.1 | 7 |
| 18 | 56.40 | 27 | 81.7 | 25 | 45.46 | 7 | 73.0 | 4 | 21.05 | 8 | 56.6 | 4 | 43.98 | 10 | 47.4 | 10 |
| 28 | 56.13 | 22 | 79.2 | 29 | 45.39 | 6 | 72.6 | 5 | 20.97 | 6 | 56.2 | 2 | 43.88 | 8 | 46.4 | 14 |
| Sept. 7 | 55.91 | 15 | 76.3 | 33 | 45.33 | 4 | 72.1 | 8 | 20.91 | 4 | 56.0 | 1 | 43.80 | 6 | 45.0 | 16 |
| 17 | 55.76 | 9 | 73.0 | 35 | 45.29 | 0 | 71.3 | 11 | 20.87 | 0 | 55.9 | 1 | 43.74 | 2 | 43.4 | 19 |
| 27 | 55.67 | 0 | 69.5 | 36 | 45.29 | 4 | 70.2 | 13 | 20.87 | 4 | 56.0 | 4 | 43.72 | 2 | 41.5 | 22 |
| Okt. 7 | 55.67 | 9 | 65.9 | 42 | 45.33 | 9 | 68.9 | 17 | 20.91 | 8 | 56.4 | 6 | 43.74 | 6 | 39.3 | 27 |
| 17 | 55.76 | 18 | 61.7 | 38 | 45.42 | 13 | 67.2 | 18 | 20.99 | 11 | 57.0 | 8 | 43.80 | 12 | 36.6 | 27 |
| 27 | 55.94 | 27 | 57.9 | 38 | 45.55 | 17 | 65.4 | 20 | 21.10 | 17 | 57.8 | 11 | 43.92 | 16 | 33.9 | 28 |
| Nov. 6 | 56.21 | 36 | 54.1 | 36 | 45.72 | 21 | 63.4 | 23 | 21.27 | 22 | 58.9 | 14 | 44.08 | 21 | 31.1 | 29 |
| 16 | 56.57 | 45 | 50.5 | 34 | 45.93 | 26 | 61.1 | 23 | 21.49 | 25 | 60.3 | 16 | 44.29 | 25 | 28.2 | 29 |
| 26 | 57.02 | 52 | 47.1 | 30 | 46.19 | 29 | 58.8 | 24 | 21.74 | 29 | 61.9 | 19 | 44.54 | 30 | 25.3 | 29 |
| Dez. 6 | 57.54 | 58 | 44.1 | 26 | 46.48 | 32 | 56.4 | 24 | 22.03 | 32 | 63.8 | 19 | 44.84 | 33 | 22.4 | 27 |
| 16 | 58.12 | 63 | 41.5 | 21 | 46.80 | 33 | 54.0 | 24 | 22.35 | 33 | 65.7 | 22 | 45.17 | 35 | 19.7 | 24 |
| 26 | 58.75 | 65 | 39.4 | 15 | 47.13 | 35 | 51.6 | 22 | 22.68 | 34 | 67.9 | 21 | 45.52 | 37 | 17.3 | 22 |
| 36 | 59.40 | | 37.9 | | 47.48 | | 49.4 | | 23.02 | | 70.0 | | 45.89 | | 15.1 | |
| Mittl. Ort | 56.16 | | 76.1 | | 44.79 | | 74.3 | | 20.43 | | 50.8 | | 43.28 | | 44.6 | |
| | 486) | | | | 488) | | | | 490) | | | | 492) | | | |

| 1911 | γ Hydrae. $3^m.1$. AR. | | Dekl. − | | ι Centauri. $2^m.9$. AR. | | Dekl. − | | ζ Urs. maj. pr. $2^m.2$. AR. | | Dekl. + | | α Virginis. $1^m.1$. AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $13^h\ 14^m$ | | 22° 41′ | | $13^h\ 15^m$ | | 36° 14′ | | $13^h\ 20^m$ | | 55° 22′ | | $13^h\ 20^m$ | | 10° 41′ | |
| Jan. 0 | 3.66 | 36 | 59.1 | 21 | 33.97 | 40 | 21.9 | 18 | 20.16 | 50 | 68.9 | 17 | 29.05 | 35 | 44.6 | 21 |
| 10 | 4.02 | 35 | 61.2 | 21 | 34.37 | 38 | 23.7 | 21 | 20.66 | 50 | 67.2 | 12 | 29.40 | 34 | 46.7 | 21 |
| 20 | 4.37 | 34 | 63.3 | 22 | 34.75 | 37 | 25.8 | 22 | 21.16 | 48 | 66.0 | 5 | 29.74 | 32 | 48.8 | 21 |
| 30 | 4.71 | 30 | 65.5 | 22 | 35.12 | 34 | 28.0 | 25 | 21.64 | 46 | 65.5 | 1 | 30.06 | 30 | 50.9 | 19 |
| Febr. 9 | 5.01 | 28 | 67.7 | 22 | 35.46 | 31 | 30.5 | 25 | 22.10 | 41 | 65.6 | 7 | 30.36 | 27 | 52.8 | 18 |
| 19 | 5.29 | 24 | 69.9 | 21 | 35.77 | 26 | 33.0 | 26 | 22.51 | 36 | 66.3 | 12 | 30.63 | 24 | 54.6 | 16 |
| März 1 | 5.53 | 20 | 72.0 | 20 | 36.03 | 22 | 35.6 | 25 | 22.87 | 30 | 67.5 | 18 | 30.87 | 20 | 56.2 | 13 |
| 11 | 5.73 | 17 | 74.0 | 18 | 36.25 | 19 | 38.1 | 25 | 23.17 | 23 | 69.3 | 21 | 31.07 | 16 | 57.5 | 12 |
| 21 | 5.90 | 13 | 75.8 | 16 | 36.44 | 14 | 40.6 | 23 | 23.40 | 16 | 71.4 | 25 | 31.23 | 13 | 58.7 | 9 |
| 31 | 6.03 | 9 | 77.4 | 14 | 36.58 | 10 | 42.9 | 22 | 23.56 | 9 | 73.9 | 27 | 31.36 | 10 | 59.6 | 7 |
| April 10 | 6.12 | 6 | 78.8 | 12 | 36.68 | 6 | 45.1 | 19 | 23.65 | 3 | 76.6 | 27 | 31.46 | 6 | 60.3 | 5 |
| 20 | 6.18 | 3 | 80.0 | 10 | 36.74 | 3 | 47.0 | 18 | 23.68 | 3 | 79.3 | 27 | 31.52 | 4 | 60.8 | 3 |
| 30 | 6.21 | 1 | 81.0 | 8 | 36.77 | 0 | 48.8 | 17 | 23.65 | 8 | 82.0 | 25 | 31.56 | 1 | 61.1 | 1 |
| Mai 10 | 6.22 | 2 | 81.8 | 6 | 36.77 | 3 | 50.5 | 12 | 23.57 | 14 | 84.5 | 24 | 31.57 | 1 | 61.2 | 0 |
| 20 | 6.20 | 4 | 82.4 | 5 | 36.74 | 6 | 51.7 | 10 | 23.43 | 17 | 86.9 | 20 | 31.56 | 4 | 61.2 | 1 |
| 30 | 6.16 | 7 | 82.9 | 2 | 36.68 | 8 | 52.7 | 7 | 23.26 | 21 | 88.9 | 17 | 31.52 | 5 | 61.1 | 3 |
| Juni 9 | 6.09 | 8 | 83.1 | 0 | 36.60 | 10 | 53.4 | 5 | 23.05 | 23 | 90.6 | 13 | 31.47 | 6 | 60.8 | 3 |
| 19 | 6.01 | 10 | 83.1 | 2 | 36.50 | 13 | 53.9 | 2 | 22.82 | 25 | 91.9 | 8 | 31.41 | 9 | 60.5 | 4 |
| 29 | 5.91 | 10 | 82.9 | 4 | 36.37 | 14 | 54.1 | 1 | 22.57 | 26 | 92.7 | 3 | 31.32 | 10 | 60.1 | 5 |
| Juli 9 | 5.81 | 12 | 82.5 | 5 | 36.23 | 14 | 54.0 | 4 | 22.31 | 27 | 93.0 | 1 | 31.22 | 10 | 59.6 | 5 |
| 19 | 5.69 | 12 | 82.0 | 7 | 36.09 | 15 | 53.6 | 7 | 22.04 | 27 | 92.9 | 6 | 31.12 | 11 | 59.1 | 6 |
| 29 | 5.57 | 12 | 81.3 | 8 | 35.94 | 16 | 52.9 | 10 | 21.77 | 25 | 92.3 | 11 | 31.01 | 10 | 58.5 | 6 |
| Aug. 8 | 5.45 | 11 | 80.5 | 9 | 35.78 | 14 | 51.9 | 12 | 21.52 | 24 | 91.2 | 15 | 30.91 | 11 | 57.9 | 6 |
| 18 | 5.34 | 10 | 79.6 | 10 | 35.64 | 13 | 50.7 | 13 | 21.28 | 21 | 89.7 | 20 | 30.80 | 9 | 57.3 | 5 |
| 28 | 5.24 | 8 | 78.6 | 9 | 35.51 | 11 | 49.4 | 15 | 21.07 | 19 | 87.7 | 24 | 30.71 | 7 | 56.8 | 5 |
| Sept. 7 | 5.16 | 5 | 77.7 | 10 | 35.40 | 7 | 47.9 | 15 | 20.88 | 14 | 85.3 | 28 | 30.64 | 6 | 56.3 | 4 |
| 17 | 5.11 | 2 | 76.7 | 9 | 35.33 | 3 | 46.4 | 16 | 20.74 | 10 | 82.5 | 30 | 30.58 | 2 | 55.9 | 2 |
| 27 | 5.09 | 3 | 75.8 | 7 | 35.30 | 2 | 44.8 | 14 | 20.64 | 3 | 79.5 | 34 | 30.56 | 2 | 55.7 | 0 |
| Okt. 7 | 5.12 | 8 | 75.1 | 6 | 35.32 | 8 | 43.4 | 14 | 20.61 | 3 | 76.1 | 39 | 30.58 | 7 | 55.7 | 2 |
| 17 | [11] 5.20 | 12 | 74.5 | 2 | [11] 35.40 | 13 | 42.0 | 11 | [15] 20.64 | 10 | 72.2 | 36 | [15] 30.65 | 11 | 55.9 | 5 |
| 27 | 5.32 | 17 | 74.3 | 0 | 35.53 | 19 | 40.9 | 7 | 20.74 | 16 | 68.6 | 37 | 30.76 | 16 | 56.4 | 7 |
| Nov. 6 | 5.49 | 22 | 74.3 | 4 | 35.72 | 23 | 40.2 | 4 | 20.90 | 24 | 64.9 | 37 | 30.92 | 20 | 57.1 | 11 |
| 16 | 5.71 | 27 | 74.7 | 7 | 35.95 | 31 | 39.8 | 0 | 21.14 | 31 | 61.2 | 36 | 31.12 | 25 | 58.2 | 13 |
| 26 | 5.98 | 31 | 75.4 | 11 | 36.26 | 33 | 39.8 | 5 | 21.45 | 37 | 57.6 | 32 | 31.37 | 29 | 59.5 | 15 |
| Dez. 6 | 6.29 | 33 | 76.5 | 14 | 36.59 | 37 | 40.3 | 8 | 21.82 | 42 | 54.4 | 30 | 31.66 | 31 | 61.0 | 18 |
| 16 | 6.62 | 35 | 77.9 | 17 | 36.96 | 39 | 41.1 | 13 | 22.24 | 46 | 51.4 | 25 | 31.97 | 33 | 62.8 | 20 |
| 26 | 6.97 | 37 | 79.6 | 19 | 37.35 | 40 | 42.4 | 16 | 22.70 | 49 | 48.9 | 21 | 32.30 | 35 | 64.8 | 21 |
| 36 | 7.34 | | 81.5 | | 37.75 | | 44.0 | | 23.19 | | 46.8 | | 32.65 | | 66.9 | |
| Mittl. Ort | 4.82 | | 68.3 | | 35.33 | | 35.2 | | 20.66 | | 83.7 | | 30.14 | | 49.4 | |
| | 495) | | | | 496) | | | | 497) | | | | 498) | | | |

| 1911 | Gr. 2001. 6m.2. AR. | | Dekl. + | | 69 H. Urs. maj. 5m.5. AR. | | Dekl. + | | ζ Virginis. 3m.3. AR. | | Dekl. — | | 17 H. Can. ven. 4m.9. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 13h 23m | | 72° 50′ | | 13h 25m | | 60° 23′ | | 13h 30m | | 0° 8′ | | 13h 30m | | 37° 37′ | |
| Jan. 0 | 51.65 | 86 | 55.4 | 15 | 10.74 | 55 | 63.2 | 17 | 8.38 | 33 | 27.5 | 22 | 48.68 | 39 | 66.0 | 21 |
| 10 | 52.51 | 85 | 53.9 | 8 | 11.29 | 56 | 61.5 | 11 | 8.71 | 34 | 29.7 | 20 | 49.07 | 39 | 63.9 | 16 |
| 20 | 53.36 | 84 | 53.1 | 1 | 11.85 | 54 | 60.4 | 5 | 9.05 | 32 | 31.7 | 19 | 49.46 | 38 | 62.3 | 11 |
| 30 | 54.20 | 79 | 53.0 | 6 | 12.39 | 51 | 59.9 | 2 | 9.37 | 30 | 33.6 | 17 | 49.84 | 35 | 61.2 | 6 |
| Febr. 9 | 54.99 | 73 | 53.6 | 11 | 12.90 | 46 | 60.1 | 8 | 9.67 | 27 | 35.3 | 14 | 50.19 | 33 | 60.6 | 0 |
| 19 | 55.72 | 63 | 54.7 | 17 | 13.36 | 41 | 60.9 | 14 | 9.94 | 24 | 36.7 | 11 | 50.52 | 28 | 60.6 | 5 |
| März 1 | 56.35 | 52 | 56.4 | 22 | 13.77 | 35 | 62.3 | 19 | 10.18 | 21 | 37.8 | 8 | 50.80 | 25 | 61.1 | 10 |
| 11 | 56.87 | 39 | 58.6 | 26 | 14.12 | 26 | 64.2 | 23 | 10.39 | 17 | 38.6 | 6 | 51.05 | 19 | 62.1 | 14 |
| 21 | 57.26 | 26 | 61.2 | 29 | 14.38 | 19 | 66.5 | 26 | 10.56 | 13 | 39.2 | 3 | 51.24 | 15 | 63.5 | 18 |
| 31 | 57.52 | 12 | 64.1 | 30 | 14.57 | 10 | 69.1 | 28 | 10.69 | 11 | 39.5 | 0 | 51.39 | 10 | 65.3 | 20 |
| April 10 | 57.64 | 1 | 67.1 | 30 | 14.67 | 3 | 71.9 | 28 | 10.80 | 6 | 39.5 | 2 | 51.49 | 6 | 67.3 | 21 |
| 20 | 57.63 | 14 | 70.1 | 29 | 14.70 | 4 | 74.7 | 28 | 10.86 | 5 | 39.3 | 3 | 51.55 | 2 | 69.4 | 22 |
| 30 | 57.49 | 24 | 73.0 | 28 | 14.66 | 11 | 77.5 | 27 | 10.91 | 1 | 39.0 | 5 | 51.57 | 2 | 71.6 | 22 |
| Mai 10 | 57.25 | 35 | 75.8 | 24 | 14.55 | 16 | 80.2 | 24 | 10.92 | 0 | 38.5 | 5 | 51.55 | 5 | 73.8 | 20 |
| 20 | 56.90 | 43 | 78.2 | 21 | 14.39 | 22 | 82.6 | 21 | 10.92 | 3 | 38.0 | 6 | 51.50 | 8 | 75.8 | 19 |
| 30 | 56.47 | 51 | 80.3 | 16 | 14.17 | 25 | 84.7 | 17 | 10.89 | 5 | 37.4 | 6 | 51.42 | 11 | 77.7 | 17 |
| Juni 9 | 55.96 | 55 | 81.9 | 12 | 13.92 | 28 | 86.4 | 13 | 10.84 | 6 | 36.8 | 7 | 51.31 | 12 | 79.4 | 13 |
| 19 | 55.41 | 60 | 83.1 | 6 | 13.64 | 31 | 87.7 | 9 | 10.78 | 8 | 36.1 | 6 | 51.19 | 14 | 80.7 | 10 |
| 29 | 54.81 | 62 | 83.7 | 1 | 13.33 | 32 | 88.6 | 3 | 10.70 | 9 | 35.5 | 6 | 51.05 | 16 | 81.7 | 6 |
| Juli 9 | 54.19 | 62 | 83.8 | 5 | 13.01 | 33 | 88.9 | 2 | 10.61 | 10 | 34.9 | 5 | 50.89 | 16 | 82.3 | 3 |
| 19 | 53.57 | 61 | 83.3 | 10 | 12.68 | 33 | 88.7 | 6 | 10.51 | 11 | 34.4 | 5 | 50.73 | 17 | 82.6 | 1 |
| 29 | 52.96 | 59 | 82.3 | 15 | 12.35 | 31 | 88.1 | 12 | 10.40 | 11 | 33.9 | 4 | 50.56 | 16 | 82.5 | 5 |
| Aug. 8 | 52.37 | 55 | 80.8 | 20 | 12.04 | 29 | 86.9 | 17 | 10.29 | 11 | 33.5 | 3 | 50.40 | 16 | 82.0 | 9 |
| 18 | 51.82 | 50 | 78.8 | 24 | 11.75 | 27 | 85.2 | 20 | 10.18 | 9 | 33.2 | 1 | 50.24 | 14 | 81.1 | 13 |
| 28 | 51.32 | 43 | 76.4 | 28 | 11.48 | 23 | 83.2 | 25 | 10.09 | 8 | 33.1 | 0 | 50.10 | 12 | 79.8 | 17 |
| Sept. 7 | 50.89 | 35 | 73.6 | 32 | 11.25 | 19 | 80.7 | 29 | 10.01 | 6 | 33.1 | 2 | 49.98 | 9 | 78.1 | 20 |
| 17 | 50.54 | 26 | 70.4 | 35 | 11.06 | 13 | 77.8 | 32 | 9.95 | 3 | 33.3 | 3 | 49.89 | 6 | 76.1 | 23 |
| 27 | 50.28 | 16 | 66.9 | 37 | 10.93 | 7 | 74.6 | 34 | 9.92 | 1 | 33.6 | 6 | 49.83 | 2 | 73.8 | 26 |
| Okt. 7 | 50.12 | 3 | 63.2 | 42 | 10.86 | 1 | 71.2 | 37 | 9.93 | 4 | 34.2 | 8 | 49.81 | 2 | 71.2 | 29 |
| 17 | 16 50.09 | 10 | 59.0 | 40 | 10.87 | 9 | 67.5 | 42 | 9.97 | 11 | 35.0 | 12 | 49.83 | 9 | 68.3 | 33 |
| 27 | 50.19 | 22 | 55.0 | 39 | 17 10.96 | 17 | 63.3 | 38 | 18 10.08 | 14 | 36.2 | 14 | 18 49.92 | 14 | 65.0 | 32 |
| Nov. 6 | 50.41 | 35 | 51.1 | 38 | 11.13 | 25 | 59.5 | 37 | 10.22 | 19 | 37.6 | 16 | 50.06 | 20 | 61.8 | 33 |
| 16 | 50.76 | 47 | 47.3 | 35 | 11.38 | 32 | 55.8 | 36 | 10.41 | 23 | 39.2 | 18 | 50.26 | 24 | 58.5 | 33 |
| 26 | 51.23 | 58 | 43.8 | 33 | 11.70 | 40 | 52.2 | 34 | 10.64 | 27 | 41.0 | 20 | 50.50 | 30 | 55.2 | 32 |
| Dez. 6 | 51.81 | 68 | 40.5 | 29 | 12.10 | 46 | 48.8 | 29 | 10.91 | 30 | 43.0 | 21 | 50.80 | 33 | 52.0 | 30 |
| 16 | 52.49 | 76 | 37.6 | 23 | 12.56 | 51 | 45.9 | 26 | 11.21 | 33 | 45.1 | 22 | 51.13 | 36 | 49.0 | 26 |
| 26 | 53.25 | 83 | 35.3 | 18 | 13.07 | 54 | 43.3 | 20 | 11.54 | 33 | 47.3 | 21 | 51.49 | 39 | 46.4 | 24 |
| 36 | 54.08 | | 33.5 | | 13.61 | | 41.3 | | 11.87 | | 49.4 | | 51.88 | | 44.0 | |
| Mittl. Ort | 51.81 | | 72.5 | | 11.22 | | 78.9 | | 9.42 | | 28.3 | | 49.44 | | 77.1 | |
| | 499) | | | | 500) | | | | 501) | | | | 502) | | | |

| 1911 | ε Centauri. $2^m.4$. | | | | τ Bootis. $4^m.5$. | | | | η Ursae maj. $1^m.8$. | | | | 89 Virginis. $5^m.2$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. − | | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. − | |
| | $13^h 34^m$ | | 53° 0′ | | $13^h 43^m$ | | 17° 53′ | | $13^h 44^m$ | | 49° 44′ | | $13^h 45^m$ | | 17° 41′ | |
| Jan. 0 | 12.51 s | 50 | 34.7 ″ | 16 | 0.99 s | 34 | 54.3 ″ | 22 | 1.36 s | 44 | 71.7 ″ | 21 | 0.69 s | 35 | 21.9 ″ | 18 |
| 10 | 13.01 | 49 | 36.3 | 21 | 1.33 | 34 | 52.1 | 20 | 1.80 | 45 | 69.6 | 15 | 1.04 | 35 | 23.7 | 20 |
| 20 | 13.50 | 47 | 38.4 | 24 | 1.67 | 33 | 50.1 | 16 | 2.25 | 44 | 68.1 | 10 | 1.39 | 34 | 25.7 | 21 |
| 30 | 13.97 | 44 | 40.8 | 26 | 2.00 | 32 | 48.5 | 12 | 2.69 | 42 | 67.1 | 3 | 1.73 | 31 | 27.8 | 20 |
| Febr. 9 | 14.41 | 41 | 43.4 | 29 | 2.32 | 29 | 47.3 | 8 | 3.11 | 38 | 66.8 | 3 | 2.04 | 29 | 29.8 | 19 |
| 19 | 14.82 | 35 | 46.3 | 30 | 2.61 | 25 | 46.5 | 4 | 3.49 | 35 | 67.1 | 9 | 2.33 | 27 | 31.7 | 18 |
| März 1 | 15.17 | 31 | 49.3 | 30 | 2.86 | 23 | 46.1 | 0 | 3.84 | 30 | 68.0 | 13 | 2.60 | 22 | 33.5 | 16 |
| 11 | 15.48 | 26 | 52.3 | 30 | 3.09 | 18 | 46.1 | 5 | 4.14 | 24 | 69.3 | 19 | 2.82 | 19 | 35.1 | 14 |
| 21 | 15.74 | 20 | 55.3 | 30 | 3.27 | 15 | 46.6 | 7 | 4.38 | 18 | 71.2 | 22 | 3.01 | 16 | 36.5 | 13 |
| 31 | 15.94 | 15 | 58.3 | 28 | 3.42 | 11 | 47.3 | 10 | 4.56 | 12 | 73.4 | 24 | 3.17 | 13 | 37.8 | 10 |
| April 10 | 16.09 | 11 | 61.1 | 26 | 3.53 | 8 | 48.3 | 12 | 4.68 | 7 | 75.8 | 26 | 3.30 | 9 | 38.8 | 9 |
| 20 | 16.20 | 5 | 63.7 | 25 | 3.61 | 5 | 49.5 | 14 | 4.75 | 2 | 78.4 | 26 | 3.39 | 6 | 39.7 | 7 |
| 30 | 16.25 | 0 | 66.2 | 21 | 3.66 | 2 | 50.9 | 14 | 4.77 | 3 | 81.0 | 26 | 3.45 | 4 | 40.4 | 6 |
| Mai 10 | 16.25 | 3 | 68.3 | 19 | 3.68 | 1 | 52.3 | 14 | 4.74 | 8 | 83.6 | 25 | 3.49 | 1 | 41.0 | 3 |
| 20 | 16.22 | 8 | 70.2 | 16 | 3.67 | 4 | 53.7 | 14 | 4.66 | 12 | 86.1 | 22 | 3.50 | 2 | 41.3 | 2 |
| 30 | 16.14 | 12 | 71.8 | 12 | 3.63 | 6 | 55.1 | 13 | 4.54 | 15 | 88.3 | 18 | 3.48 | 3 | 41.5 | 1 |
| Juni 9 | 16.02 | 16 | 73.0 | 8 | 3.57 | 7 | 56.4 | 11 | 4.39 | 18 | 90.1 | 16 | 3.45 | 7 | 41.6 | 1 |
| 19 | 15.86 | 18 | 73.8 | 4 | 3.50 | 9 | 57.5 | 10 | 4.21 | 20 | 91.7 | 11 | 3.38 | 7 | 41.5 | 2 |
| 29 | 15.68 | 21 | 74.2 | 0 | 3.41 | 10 | 58.5 | 7 | 4.01 | 21 | 92.8 | 7 | 3.31 | 10 | 41.3 | 3 |
| Juli 9 | 15.47 | 23 | 74.2 | 3 | 3.31 | 12 | 59.2 | 6 | 3.80 | 23 | 93.5 | 2 | 3.21 | 11 | 41.0 | 4 |
| 19 | 15.24 | 24 | 73.9 | 7 | 3.19 | 12 | 59.8 | 3 | 3.57 | 24 | 93.7 | 2 | 3.10 | 11 | 40.6 | 6 |
| 29 | 15.00 | 24 | 73.2 | 11 | 3.07 | 13 | 60.1 | 0 | 3.33 | 23 | 93.5 | 7 | 2.99 | 13 | 40.0 | 6 |
| Aug. 8 | 14.76 | 23 | 72.1 | 14 | 2.94 | 12 | 60.1 | 2 | 3.10 | 22 | 92.8 | 12 | 2.86 | 12 | 39.4 | 6 |
| 18 | 14.53 | 22 | 70.7 | 17 | 2.82 | 11 | 59.9 | 5 | 2.88 | 21 | 91.6 | 16 | 2.74 | 11 | 38.8 | 7 |
| 28 | 14.31 | 18 | 69.0 | 19 | 2.71 | 10 | 59.4 | 8 | 2.67 | 18 | 90.0 | 20 | 2.63 | 9 | 38.1 | 7 |
| Sept. 7 | 14.13 | 14 | 67.1 | 21 | 2.61 | 8 | 58.6 | 10 | 2.49 | 15 | 88.0 | 24 | 2.54 | 8 | 37.4 | 7 |
| 17 | 13.99 | 9 | 65.0 | 21 | 2.53 | 5 | 57.6 | 14 | 2.34 | 11 | 85.6 | 27 | 2.46 | 4 | 36.7 | 5 |
| 27 | 13.90 | 2 | 62.9 | 21 | 2.48 | 1 | 56.2 | 16 | 2.23 | 7 | 82.9 | 30 | 2.42 | 1 | 36.2 | 4 |
| Okt. 7 | 13.88 | 5 | 60.8 | 20 | 2.47 | 2 | 54.6 | 18 | 2.16 | 1 | 79.9 | 34 | 2.41 | 4 | 35.8 | 3 |
| 17 | 13.93 | 13 | 58.8 | 20 | 2.49 | 8 | 52.8 | 23 | 2.15 | 6 | 76.5 | 38 | 2.45 | 9 | 35.5 | 0 |
| 27 | [19] 14.06 | 21 | 56.8 | 15 | [21] 2.57 | 12 | 50.5 | 24 | [22] 2.21 | 13 | 72.7 | 36 | [22] 2.54 | 14 | 35.5 | 2 |
| Nov. 6 | 14.27 | 28 | 55.3 | 10 | 2.69 | 18 | 48.1 | 25 | 2.34 | 18 | 69.1 | 37 | 2.68 | 19 | 35.7 | 6 |
| 16 | 14.55 | 34 | 54.3 | 6 | 2.87 | 22 | 45.6 | 26 | 2.52 | 25 | 65.4 | 35 | 2.87 | 23 | 36.3 | 9 |
| 26 | 14.89 | 40 | 53.7 | 1 | 3.09 | 26 | 43.0 | 27 | 2.77 | 31 | 61.9 | 34 | 3.10 | 28 | 37.2 | 11 |
| Dez. 6 | 15.29 | 45 | 53.6 | 4 | 3.35 | 29 | 40.3 | 27 | 3.08 | 36 | 58.5 | 32 | 3.38 | 31 | 38.3 | 14 |
| 16 | 15.74 | 49 | 54.0 | 8 | 3.64 | 32 | 37.6 | 25 | 3.44 | 41 | 55.3 | 28 | 3.69 | 33 | 39.7 | 17 |
| 26 | 16.23 | 50 | 54.8 | 14 | 3.96 | 34 | 35.1 | 24 | 3.85 | 43 | 52.5 | 24 | 4.02 | 35 | 41.4 | 18 |
| 36 | 16.73 | | 56.2 | | 4.30 | | 32.7 | | 4.28 | | 50.1 | | 4.37 | | 43.2 | |
| Mittl. Ort | 14.45 | | 51.3 | | 1.97 | | 59.9 | | 2.12 | | 85.8 | | 1.99 | | 28.1 | |
| | 504) | | | | 507) | | | | 509) | | | | 510) | | | |

| 1911 | ζ Centauri. 2ᵐ.6. AR. | Diff. | Dekl. − | Diff. | η Bootis. 2ᵐ.8. AR. | Diff. | Dekl. + | Diff. | τ Virginis. 4ᵐ.2. AR. | Diff. | Dekl. + | Diff. | 11 Bootis. 6ᵐ.3. AR. | Diff. | Dekl. + | Diff. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 13ʰ 49ᵐ | | 46° 50′ | | 13ʰ 50ᵐ | | 18° 50′ | | 13ʰ 57ᵐ | | 1° 58′ | | 13ʰ 57ᵐ | | 27° 48′ | |
| Jan. 0 | 56.96ˢ | 45 | 47.6″ | 12 | 25.81ˢ | 34 | 30.6″ | 23 | 5.78ˢ | 33 | 28.5″ | 21 | 7.39ˢ | 35 | 49.0″ | 23 |
| 10 | 57.41 | 45 | 48.8 | 16 | 26.15 | 34 | 28.3 | 20 | 6.11 | 33 | 26.4 | 21 | 7.74 | 36 | 46.7 | 19 |
| 20 | 57.86 | 44 | 50.4 | 20 | 26.49 | 34 | 26.3 | 17 | 6.44 | 33 | 24.3 | 18 | 8.10 | 35 | 44.8 | 15 |
| 30 | 58.30 | 41 | 52.4 | 22 | 26.83 | 32 | 24.6 | 12 | 6.77 | 32 | 22.5 | 16 | 8.45 | 34 | 43.3 | 11 |
| Febr. 9 | 58.71 | 38 | 54.6 | 24 | 27.15 | 29 | 23.4 | 8 | 7.09 | 28 | 20.9 | 14 | 8.79 | 31 | 42.2 | 5 |
| 19 | 59.09 | 34 | 57.0 | 26 | 27.44 | 27 | 22.6 | 3 | 7.37 | 26 | 19.5 | 10 | 9.10 | 28 | 41.7 | 0 |
| März 1 | 59.43 | 30 | 59.6 | 26 | 27.71 | 23 | 22.3 | 0 | 7.63 | 23 | 18.5 | 8 | 9.38 | 24 | 41.7 | 4 |
| 11 | 59.73 | 25 | 62.2 | 27 | 27.94 | 19 | 22.3 | 4 | 7.86 | 20 | 17.7 | 4 | 9.62 | 21 | 42.1 | 9 |
| 21 | 59.98 | 21 | 64.9 | 27 | 28.13 | 16 | 22.7 | 8 | 8.06 | 16 | 17.3 | 1 | 9.83 | 17 | 43.0 | 12 |
| 31 | 60.19 | 17 | 67.6 | 26 | 28.29 | 12 | 23.5 | 10 | 8.22 | 13 | 17.2 | 1 | 10.00 | 13 | 44.2 | 15 |
| April 10 | 60.36 | 12 | 70.2 | 24 | 28.41 | 8 | 24.5 | 13 | 8.35 | 10 | 17.3 | 3 | 10.13 | 9 | 45.7 | 18 |
| 20 | 60.48 | 8 | 72.6 | 24 | 28.49 | 6 | 25.8 | 14 | 8.45 | 7 | 17.6 | 5 | 10.22 | 5 | 47.5 | 18 |
| 30 | 60.56 | 4 | 75.0 | 22 | 28.55 | 2 | 27.2 | 15 | 8.52 | 4 | 18.1 | 6 | 10.27 | 2 | 49.3 | 19 |
| Mai 10 | 60.60 | 1 | 77.2 | 19 | 28.57 | 0 | 28.7 | 15 | 8.56 | 1 | 18.7 | 7 | 10.29 | 0 | 51.2 | 19 |
| 20 | 60.59 | 4 | 79.1 | 16 | 28.57 | 3 | 30.2 | 14 | 8.57 | 1 | 19.4 | 7 | 10.29 | 4 | 53.1 | 18 |
| 30 | 60.55 | 7 | 80.7 | 14 | 28.54 | 5 | 31.6 | 13 | 8.56 | 3 | 20.1 | 8 | 10.25 | 6 | 54.9 | 16 |
| Juni 9 | 60.48 | 11 | 82.1 | 11 | 28.49 | 7 | 32.9 | 12 | 8.53 | 5 | 20.9 | 8 | 10.19 | 9 | 56.5 | 14 |
| 19 | 60.37 | 14 | 83.2 | 7 | 28.42 | 9 | 34.1 | 10 | 8.48 | 7 | 21.7 | 7 | 10.10 | 10 | 57.9 | 12 |
| 29 | 60.23 | 16 | 83.9 | 4 | 28.33 | 11 | 35.1 | 8 | 8.41 | 9 | 22.4 | 6 | 10.00 | 12 | 59.1 | 8 |
| Juli 9 | 60.07 | 19 | 84.3 | 1 | 28.22 | 11 | 35.9 | 5 | 8.32 | 9 | 23.0 | 6 | 9.88 | 14 | 59.9 | 6 |
| 19 | 59.88 | 20 | 84.4 | 4 | 28.11 | 13 | 36.4 | 3 | 8.23 | 11 | 23.6 | 5 | 9.74 | 14 | 60.5 | 2 |
| 29 | 59.68 | 20 | 84.0 | 6 | 27.98 | 13 | 36.7 | 1 | 8.12 | 12 | 24.1 | 3 | 9.60 | 15 | 60.7 | 1 |
| Aug. 8 | 59.48 | 20 | 83.4 | 10 | 27.85 | 13 | 36.8 | 2 | 8.00 | 12 | 24.4 | 3 | 9.45 | 14 | 60.6 | 4 |
| 18 | 59.28 | 19 | 82.4 | 13 | 27.72 | 11 | 36.6 | 6 | 7.88 | 11 | 24.7 | 0 | 9.31 | 14 | 60.2 | 8 |
| 28 | 59.09 | 17 | 81.1 | 16 | 27.61 | 11 | 36.0 | 8 | 7.77 | 10 | 24.7 | 0 | 9.17 | 12 | 59.4 | 11 |
| Sept. 7 | 58.92 | 13 | 79.5 | 17 | 27.50 | 8 | 35.2 | 10 | 7.67 | 8 | 24.7 | 3 | 9.05 | 11 | 58.3 | 14 |
| 17 | 58.79 | 9 | 77.8 | 19 | 27.42 | 6 | 34.2 | 14 | 7.59 | 5 | 24.4 | 4 | 8.94 | 7 | 56.9 | 17 |
| 27 | 58.70 | 4 | 75.9 | 18 | 27.36 | 2 | 32.8 | 16 | 7.54 | 2 | 24.0 | 7 | 8.87 | 4 | 55.2 | 21 |
| Okt. 7 | 58.66 | 3 | 74.1 | 17 | 27.34 | 2 | 31.2 | 19 | 7.52 | 2 | 23.3 | 10 | 8.83 | 0 | 53.1 | 23 |
| 17 | 58.69 | 11 | 72.4 | 19 | 27.36 | 7 | 29.3 | 24 | 7.54 | 7 | 22.3 | 13 | 8.83 | 6 | 50.8 | 29 |
| 27 | 58.80 | 16 | 70.5 | 15 | 27.43 | 11 | 26.9 | 24 | 7.61 | 11 | 21.0 | 14 | 8.89 | 10 | 47.9 | 28 |
| Nov. 6 | 58.96 | 24 | 69.0 | 12 | 27.54 | 17 | 24.5 | 25 | 7.72 | 17 | 19.6 | 16 | 8.99 | 16 | 45.1 | 29 |
| 16 | 59.20 | 30 | 67.8 | 7 | 27.71 | 21 | 22.0 | 27 | 7.89 | 21 | 18.0 | 19 | 9.15 | 21 | 42.2 | 31 |
| 26 | 59.50 | 35 | 67.1 | 3 | 27.92 | 25 | 19.3 | 28 | 8.10 | 25 | 16.1 | 20 | 9.36 | 25 | 39.1 | 30 |
| Dez. 6 | 59.85 | 40 | 66.8 | 1 | 28.17 | 29 | 16.5 | 27 | 8.35 | 28 | 14.1 | 22 | 9.61 | 30 | 36.1 | 29 |
| 16 | 60.25 | 43 | 66.9 | 5 | 28.46 | 32 | 13.8 | 25 | 8.63 | 31 | 11.9 | 22 | 9.91 | 32 | 33.2 | 27 |
| 26 | 60.68 | 45 | 67.4 | 10 | 28.78 | 34 | 11.3 | 25 | 8.94 | 33 | 9.7 | 22 | 10.23 | 35 | 30.5 | 25 |
| 36 | 61.13 | | 68.4 | | 29.12 | | 8.8 | | 9.27 | | 7.5 | | 10.58 | | 28.0 | |
| Mittl. Ort | 58.84 | | 62.3 | | 26.82 | | 36.6 | | 6.96 | | 29.3 | | 8.39 | | 57.9 | |
| | 512) | | | | 513) | | | | 516) | | | | 517) | | | |

| 1911 | β Centauri. $1^m$. AR. | | Dekl. − | | ϑ Centauri. $2^m.1$. AR. | | Dekl. − | | α Draconis. $3^m.4$. AR. | | Dekl. + | | d Bootis. $4^m.9$. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $13^h\ 57^m$ | | $59°\ 56'$ | | $14^h\ 1^m$ | | $35°\ 55'$ | | $14^h\ 1^m$ | | $64°\ 47'$ | | $14^h\ 6^m$ | | $25°\ 30'$ | |
| Jan. 0 | $29^s.46$ | 58 | $21''.9$ | 7 | $24^s.68$ | 40 | $46''.0$ | 14 | $57^s.89$ | 59 | $47''.0$ | 21 | $19^s.36$ | 35 | $38''.0$ | 24 |
| 10 | 30.04 | 58 | 22.6 | 13 | 25.08 | 39 | 47.4 | 17 | 58.48 | 61 | 44.9 | 14 | 19.71 | 35 | 35.6 | 20 |
| 20 | 30.62 | 56 | 23.9 | 17 | 25.47 | 39 | 49.1 | 19 | 59.09 | 61 | 43.5 | 8 | 20.06 | 35 | 33.6 | 16 |
| 30 | 31.18 | 54 | 25.6 | 21 | 25.86 | 36 | 51.0 | 21 | 59.70 | 60 | 42.7 | 2 | 20.41 | 33 | 32.0 | 11 |
| Febr. 9 | 31.72 | 50 | 27.7 | 24 | 26.22 | 35 | 53.1 | 21 | 60.30 | 56 | 42.5 | 5 | 20.74 | 31 | 30.9 | 7 |
| 19 | 32.22 | 45 | 30.1 | 27 | 26.57 | 31 | 55.2 | 23 | 60.86 | 51 | 43.0 | 11 | 21.05 | 29 | 30.2 | 2 |
| März 1 | 32.67 | 40 | 32.8 | 28 | 26.88 | 27 | 57.5 | 23 | 61.37 | 44 | 44.1 | 17 | 21.34 | 25 | 30.0 | 3 |
| 11 | 33.07 | 34 | 35.6 | 30 | 27.15 | 24 | 59.8 | 22 | 61.81 | 36 | 45.8 | 22 | 21.59 | 21 | 30.3 | 8 |
| 21 | 33.41 | 28 | 38.6 | 31 | 27.39 | 19 | 62.0 | 21 | 62.17 | 27 | 48.0 | 26 | 21.80 | 17 | 31.1 | 11 |
| 31 | 33.69 | 22 | 41.7 | 31 | 27.58 | 16 | 64.1 | 21 | 62.44 | 19 | 50.6 | 28 | 21.97 | 14 | 32.2 | 14 |
| April 10 | 33.91 | 16 | 44.8 | 30 | 27.74 | 12 | 66.2 | 19 | 62.63 | 10 | 53.4 | 29 | 22.11 | 10 | 33.6 | 16 |
| 20 | 34.07 | 10 | 47.8 | 29 | 27.86 | 9 | 68.1 | 18 | 62.73 | 1 | 56.3 | 30 | 22.21 | 7 | 35.2 | 17 |
| 30 | 34.17 | 4 | 50.7 | 27 | 27.95 | 6 | 69.9 | 15 | 62.74 | 7 | 59.3 | 29 | 22.28 | 3 | 36.9 | 19 |
| Mai 10 | 34.21 | 1 | 53.4 | 26 | 28.01 | 2 | 71.4 | 14 | 62.67 | 15 | 62.2 | 27 | 22.31 | 0 | 38.8 | 18 |
| 20 | 34.20 | 7 | 56.0 | 23 | 28.03 | 1 | 72.8 | 12 | 62.52 | 21 | 64.9 | 25 | 22.31 | 2 | 40.6 | 18 |
| 30 | 34.13 | 13 | 58.3 | 19 | 28.02 | 4 | 74.0 | 10 | 62.31 | 27 | 67.4 | 21 | 22.29 | 5 | 42.4 | 16 |
| Juni 9 | 34.00 | 17 | 60.2 | 17 | 27.98 | 7 | 75.0 | 7 | 62.04 | 32 | 69.5 | 17 | 22.24 | 8 | 44.0 | 14 |
| 19 | 33.83 | 22 | 61.9 | 12 | 27.91 | 10 | 75.7 | 4 | 61.72 | 36 | 71.2 | 12 | 22.16 | 9 | 45.4 | 12 |
| 29 | 33.61 | 25 | 63.1 | 8 | 27.81 | 12 | 76.1 | 2 | 61.36 | 39 | 72.4 | 7 | 22.07 | 11 | 46.6 | 9 |
| Juli 9 | 33.36 | 29 | 63.9 | 4 | 27.69 | 13 | 76.3 | 0 | 60.97 | 42 | 73.1 | 2 | 21.96 | 13 | 47.5 | 6 |
| 19 | 33.07 | 30 | 64.3 | 0 | 27.56 | 16 | 76.3 | 3 | 60.55 | 42 | 73.3 | 3 | 21.83 | 14 | 48.1 | 4 |
| 29 | 32.77 | 32 | 64.3 | 5 | 27.40 | 16 | 76.0 | 6 | 60.13 | 42 | 73.0 | 8 | 21.69 | 14 | 48.5 | 0 |
| Aug. 8 | 32.45 | 31 | 63.8 | 10 | 27.24 | 16 | 75.4 | 9 | 59.71 | 40 | 72.2 | 13 | 21.55 | 15 | 48.5 | 3 |
| 18 | 32.14 | 29 | 62.8 | 13 | 27.08 | 16 | 74.5 | 10 | 59.31 | 39 | 70.9 | 18 | 21.40 | 14 | 48.2 | 7 |
| 28 | 31.85 | 26 | 61.5 | 17 | 26.92 | 14 | 73.5 | 12 | 58.92 | 35 | 69.1 | 23 | 21.26 | 13 | 47.5 | 9 |
| Sept. 7 | 31.59 | 21 | 59.8 | 20 | 26.78 | 11 | 72.3 | 13 | 58.57 | 30 | 66.8 | 27 | 21.13 | 10 | 46.6 | 13 |
| 17 | 31.38 | 16 | 57.8 | 22 | 26.67 | 8 | 71.0 | 13 | 58.27 | 25 | 64.1 | 30 | 21.03 | 8 | 45.3 | 16 |
| 27 | 31.22 | 8 | 55.6 | 23 | 26.59 | 3 | 69.7 | 14 | 58.02 | 18 | 61.1 | 34 | 20.95 | 5 | 43.7 | 20 |
| Okt. 7 | 31.14 | 1 | 53.3 | 23 | 26.56 | 1 | 68.3 | 13 | 57.84 | 10 | 57.7 | 36 | 20.90 | 1 | 41.7 | 22 |
| 17 | 31.15 | 10 | 51.0 | 25 | 26.57 | 8 | 67.0 | 12 | 57.74 | 2 | 54.1 | 42 | 20.89 | 4 | 39.5 | 24 |
| 27 | [25] 31.25 | 19 | 48.5 | 21 | [26] 26.65 | 14 | 65.8 | 8 | [26] 57.72 | 9 | 49.9 | 39 | 20.93 | 10 | 37.1 | 29 |
| Nov. 6 | 31.44 | 28 | 46.4 | 18 | 26.79 | 19 | 65.0 | 6 | 57.81 | 18 | 46.0 | 39 | [27] 21.03 | 15 | 34.2 | 29 |
| 16 | 31.72 | 37 | 44.6 | 14 | 26.98 | 26 | 64.4 | 2 | 57.99 | 27 | 42.1 | 38 | 21.18 | 20 | 31.3 | 30 |
| 26 | 32.09 | 44 | 43.2 | 10 | 27.24 | 30 | 64.2 | 1 | 58.26 | 37 | 38.3 | 35 | 21.38 | 24 | 28.3 | 29 |
| Dez. 6 | 32.53 | 50 | 42.2 | 5 | 27.54 | 34 | 64.3 | 5 | 58.63 | 44 | 34.8 | 33 | 21.62 | 28 | 25.4 | 29 |
| 16 | 33.03 | 54 | 41.7 | 0 | 27.88 | 37 | 64.8 | 9 | 59.07 | 52 | 31.5 | 29 | 21.90 | 32 | 22.5 | 28 |
| 26 | 33.57 | 58 | 41.7 | 5 | 28.25 | 39 | 65.7 | 12 | 59.59 | 56 | 28.6 | 24 | 22.22 | 34 | 19.7 | 25 |
| 36 | 34.15 | | 42.2 | | 28.64 | | 66.9 | | 60.15 | | 26.2 | | 22.56 | | 17.2 | |
| Mittl. Ort | 31.99 | | 38.9 | | 26.38 | | 57.2 | | 58.74 | | 63.7 | | 20.43 | | 46.4 | |
| | 518) | | | | 520) | | | | 521) | | | | 522) | | | |

| 1911 | κ Virginis. $4^m.2$. AR. | | Dekl. − | | 4 Ursae min. $5^m.0$. AR. | | Dekl. + | | ι Virginis. $4^m.0$. AR. | | Dekl. − | | α Bootis. $1^m$. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $14^h\,8^m$ | | $9^\circ\,51'$ | | $14^h\,9^m$ | | $77^\circ\,57'$ | | $14^h\,11^m$ | | $5^\circ\,34'$ | | $14^h\,11^m$ | | $19^\circ\,38'$ | |
| Jan. 0 | 7.41 | 35 | 32.7 | 20 | 9.71 | 106 | 38.9 | 19 | 19.39 | 34 | 33.4 | 20 | 34.96 | 34 | 36.6 | 24 |
| 10 | 7.76 | 33 | 34.7 | 19 | 10.77 | 112 | 37.0 | 13 | 19.73 | 34 | 35.4 | 20 | 35.30 | 33 | 34.2 | 21 |
| 20 | 8.09 | 33 | 36.6 | 19 | 11.89 | 114 | 35.7 | 6 | 20.07 | 33 | 37.4 | 19 | 35.63 | 34 | 32.1 | 18 |
| 30 | 8.42 | 32 | 38.5 | 18 | 13.03 | 113 | 35.1 | 0 | 20.40 | 31 | 39.3 | 17 | 35.97 | 32 | 30.3 | 13 |
| Febr. 9 | 8.74 | 30 | 40.3 | 17 | 14.16 | 107 | 35.1 | 7 | 20.71 | 30 | 41.0 | 16 | 36.29 | 31 | 29.0 | 9 |
| 19 | 9.04 | 26 | 42.0 | 14 | 15.23 | 97 | 35.8 | 14 | 21.01 | 27 | 42.6 | 13 | 36.60 | 28 | 28.1 | 5 |
| März 1 | 9.30 | 24 | 43.4 | 13 | 16.20 | 84 | 37.2 | 18 | 21.28 | 24 | 43.9 | 10 | 36.88 | 24 | 27.6 | 0 |
| 11 | 9.54 | 21 | 44.7 | 10 | 17.04 | 69 | 39.0 | 24 | 21.52 | 21 | 44.9 | 8 | 37.12 | 20 | 27.6 | 4 |
| 21 | 9.75 | 18 | 45.7 | 7 | 17.73 | 52 | 41.4 | 27 | 21.73 | 18 | 45.7 | 6 | 37.32 | 18 | 28.0 | 7 |
| 31 | 9.93 | 14 | 46.4 | 6 | 18.25 | 34 | 44.1 | 30 | 21.91 | 14 | 46.3 | 3 | 37.50 | 14 | 28.7 | 10 |
| April 10 | 10.07 | 12 | 47.0 | 4 | 18.59 | 14 | 47.1 | 30 | 22.05 | 12 | 46.6 | 1 | 37.64 | 11 | 29.7 | 13 |
| 20 | 10.19 | 8 | 47.4 | 1 | 18.73 | 4 | 50.1 | 31 | 22.17 | 8 | 46.7 | 0 | 37.75 | 7 | 31.0 | 15 |
| 30 | 10.27 | 6 | 47.5 | 1 | 18.69 | 22 | 53.2 | 29 | 22.25 | 6 | 46.7 | 2 | 37.82 | 4 | 32.5 | 15 |
| Mai 10 | 10.33 | 3 | 47.6 | 1 | 18.47 | 38 | 56.1 | 28 | 22.31 | 3 | 46.5 | 3 | 37.86 | 1 | 34.0 | 15 |
| 20 | 10.36 | 0 | 47.5 | 2 | 18.09 | 53 | 58.9 | 24 | 22.34 | 1 | 46.2 | 5 | 37.87 | 1 | 35.5 | 15 |
| 30 | 10.36 | 2 | 47.3 | 3 | 17.56 | 67 | 61.3 | 21 | 22.35 | 2 | 45.7 | 4 | 37.86 | 4 | 37.0 | 14 |
| Juni 9 | 10.34 | 4 | 47.0 | 3 | 16.89 | 77 | 63.4 | 16 | 22.33 | 4 | 45.3 | 5 | 37.82 | 7 | 38.4 | 13 |
| 19 | 10.30 | 6 | 46.7 | 4 | 16.12 | 86 | 65.0 | 12 | 22.29 | 6 | 44.8 | 5 | 37.75 | 8 | 39.7 | 11 |
| 29 | 10.24 | 9 | 46.3 | 4 | 15.26 | 91 | 66.2 | 6 | 22.23 | 8 | 44.3 | 5 | 37.67 | 10 | 40.8 | 8 |
| Juli 9 | 10.15 | 9 | 45.9 | 5 | 14.35 | 96 | 66.8 | 0 | 22.15 | 10 | 43.8 | 5 | 37.57 | 12 | 41.6 | 7 |
| 19 | 10.06 | 11 | 45.4 | 5 | 13.39 | 97 | 66.8 | 4 | 22.05 | 11 | 43.3 | 5 | 37.45 | 13 | 42.3 | 4 |
| 29 | 9.95 | 12 | 44.9 | 5 | 12.42 | 97 | 66.4 | 10 | 21.94 | 12 | 42.8 | 4 | 37.32 | 14 | 42.7 | 0 |
| Aug. 8 | 9.83 | 12 | 44.4 | 5 | 11.45 | 95 | 65.4 | 15 | 21.82 | 12 | 42.4 | 4 | 37.18 | 14 | 42.7 | 1 |
| 18 | 9.71 | 12 | 43.9 | 4 | 10.50 | 89 | 63.9 | 20 | 21.70 | 12 | 42.0 | 3 | 37.04 | 13 | 42.6 | 5 |
| 28 | 9.59 | 11 | 43.5 | 4 | 9.61 | 82 | 61.9 | 25 | 21.58 | 11 | 41.7 | 2 | 36.91 | 13 | 42.1 | 8 |
| Sept. 7 | 9.48 | 9 | 43.1 | 2 | 8.79 | 72 | 59.4 | 28 | 21.47 | 9 | 41.5 | 1 | 36.78 | 10 | 41.3 | 11 |
| 17 | 9.39 | 6 | 42.9 | 2 | 8.07 | 62 | 56.6 | 32 | 21.38 | 6 | 41.4 | 1 | 36.68 | 8 | 40.2 | 13 |
| 27 | 9.33 | 3 | 42.7 | 1 | 7.45 | 47 | 53.4 | 35 | 21.32 | 3 | 41.5 | 3 | 36.60 | 5 | 38.9 | 17 |
| Okt. 7 | 9.30 | 1 | 42.8 | 2 | 6.98 | 33 | 49.9 | 38 | 21.29 | 1 | 41.8 | 5 | 36.55 | 1 | 37.2 | 20 |
| 17 | 9.31 | 6 | 43.0 | 4 | 6.65 | 16 | 46.1 | 39 | 21.30 | 5 | 42.3 | 7 | 36.54 | 4 | 35.2 | 22 |
| 27 | [28] 9.37 | 12 | 43.4 | 7 | [28] 6.49 | 3 | 42.2 | 43 | [29] 21.35 | 11 | 43.0 | 10 | [29] 36.58 | 10 | 33.0 | 26 |
| Nov. 6 | 9.49 | 16 | 44.1 | 9 | 6.52 | 22 | 37.9 | 39 | 21.46 | 15 | 44.0 | 12 | 36.68 | 13 | 30.4 | 27 |
| 16 | 9.65 | 21 | 45.0 | 12 | 6.74 | 40 | 34.0 | 38 | 21.61 | 21 | 45.2 | 15 | 36.81 | 20 | 27.7 | 27 |
| 26 | 9.86 | 25 | 46.2 | 15 | 7.14 | 58 | 30.2 | 35 | 21.82 | 24 | 46.7 | 17 | 37.01 | 23 | 25.0 | 29 |
| Dez. 6 | 10.11 | 28 | 47.7 | 16 | 7.72 | 75 | 26.7 | 32 | 22.06 | 28 | 48.4 | 18 | 37.24 | 27 | 22.1 | 28 |
| 16 | 10.39 | 32 | 49.3 | 18 | 8.47 | 89 | 23.5 | 28 | 22.34 | 31 | 50.2 | 20 | 37.51 | 31 | 19.3 | 27 |
| 26 | 10.71 | 33 | 51.1 | 19 | 9.36 | 100 | 20.7 | 22 | 22.65 | 33 | 52.2 | 20 | 37.82 | 33 | 16.6 | 25 |
| 36 | 11.04 | | 53.0 | | 10.36 | | 18.5 | | 22.98 | | 54.2 | | 38.15 | | 14.1 | |
| Mittl. Ort | 8.76 | | 35.5 | | 10.69 | | 56.6 | | 20.73 | | 34.6 | | 36.09 | | 43.4 | |
| | 523) | | | | 524) | | | | 525) | | | | 526) | | | |

| 1911 | λ Bootis. $4^m.0$ | | | | ϑ Bootis. $3^m.9$ | | | | ρ Bootis. $3^m.7$ | | | | γ Bootis. $2^m.9$ | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. + | |
| | $14^h\ 12^m$ | | 46° 29′ | | $14^h\ 22^m$ | | 52° 15′ | | $14^h\ 27^m$ | | 30° 45′ | | $14^h\ 28^m$ | | 38° 41′ | |
| Jan. 0 | 59.06 | 41 | 34.2 | 24 | 8.97 | 43 | 27.6 | 25 | 58.50 | 35 | 31.8 | 25 | 28.53 | 37 | 37.7 | 26 |
| 10 | 59.47 | 42 | 31.8 | 19 | 9.40 | 45 | 25.1 | 19 | 58.85 | 36 | 29.3 | 21 | 28.90 | 38 | 35.1 | 21 |
| 20 | 59.89 | 41 | 29.9 | 13 | 9.85 | 46 | 23.2 | 13 | 59.21 | 36 | 27.2 | 16 | 29.28 | 38 | 33.0 | 15 |
| 30 | 60.30 | 41 | 28.6 | 7 | 10.31 | 45 | 21.9 | 7 | 59.57 | 35 | 25.6 | 12 | 29.66 | 38 | 31.5 | 10 |
| Febr. 9 | 60.71 | 39 | 27.9 | 1 | 10.76 | 42 | 21.2 | 0 | 59.92 | 32 | 24.4 | 6 | 30.04 | 35 | 30.5 | 5 |
| 19 | 61.10 | 35 | 27.8 | — 5 | 11.18 | 39 | 21.2 | 6 | 60.24 | 31 | 23.8 | 1 | 30.39 | 33 | 30.0 | — 2 |
| März 1 | 61.45 | 31 | 28.3 | 11 | 11.57 | 35 | 21.8 | 11 | 60.55 | 27 | 23.7 | — 4 | 30.72 | 29 | 30.2 | 7 |
| 11 | 61.76 | 26 | 29.4 | 15 | 11.92 | 30 | 22.9 | 17 | 60.82 | 24 | 24.1 | 9 | 31.01 | 26 | 30.9 | 11 |
| 21 | 62.02 | 21 | 30.9 | 20 | 12.22 | 24 | 24.6 | 21 | 61.06 | 20 | 25.0 | 12 | 31.27 | 21 | 32.0 | 16 |
| 31 | 62.23 | 16 | 32.9 | 23 | 12.46 | 18 | 26.7 | 24 | 61.26 | 17 | 26.2 | 17 | 31.48 | 17 | 33.6 | 20 |
| April 10 | 62.39 | 11 | 35.2 | 25 | 12.64 | 12 | 29.1 | 27 | 61.43 | 12 | 27.9 | 18 | 31.65 | 12 | 35.6 | 22 |
| 20 | 62.50 | 6 | 37.7 | 26 | 12.76 | 7 | 31.8 | 27 | 61.55 | 8 | 29.7 | 21 | 31.77 | 8 | 37.8 | 23 |
| 30 | 62.56 | 1 | 40.3 | 26 | 12.83 | 1 | 34.5 | 28 | 61.63 | 5 | 31.8 | 21 | 31.85 | 4 | 40.1 | 25 |
| Mai 10 | 62.57 | — 4 | 42.9 | 25 | 12.84 | — 4 | 37.3 | 27 | 61.68 | 2 | 33.9 | 21 | 31.89 | 1 | 42.6 | 24 |
| 20 | 62.53 | 7 | 45.4 | 24 | 12.80 | 9 | 40.0 | 25 | 61.70 | — 2 | 36.0 | 20 | 31.90 | — 3 | 45.0 | 22 |
| 30 | 62.46 | 11 | 47.8 | 21 | 12.71 | 13 | 42.5 | 22 | 61.68 | 4 | 38.0 | 19 | 31.87 | 7 | 47.2 | 21 |
| Juni 9 | 62.35 | 14 | 49.9 | 18 | 12.58 | 17 | 44.7 | 19 | 61.64 | 8 | 39.9 | 17 | 31.80 | 10 | 49.3 | 19 |
| 19 | 62.21 | 17 | 51.7 | 14 | 12.41 | 20 | 46.6 | 15 | 61.56 | 10 | 41.6 | 14 | 31.70 | 12 | 51.2 | 15 |
| 29 | 62.04 | 19 | 53.1 | 10 | 12.21 | 23 | 48.1 | 11 | 61.46 | 12 | 43.0 | 12 | 31.58 | 15 | 52.7 | 12 |
| Juli 9 | 61.85 | 21 | 54.1 | 6 | 11.98 | 25 | 49.2 | 6 | 61.34 | 14 | 44.2 | 8 | 31.43 | 17 | 53.9 | 8 |
| 19 | 61.64 | 22 | 54.7 | 1 | 11.73 | 27 | 49.8 | 2 | 61.20 | 15 | 45.0 | 4 | 31.26 | 18 | 54.7 | 4 |
| 29 | 61.42 | 23 | 54.8 | — 3 | 11.46 | 27 | 50.0 | — 3 | 61.05 | 16 | 45.4 | 1 | 31.08 | 19 | 55.1 | 0 |
| Aug. 8 | 61.19 | 22 | 54.5 | 7 | 11.19 | 27 | 49.7 | 8 | 60.89 | 17 | 45.5 | — 3 | 30.89 | 20 | 55.1 | 4 |
| 18 | 60.97 | 22 | 53.8 | 12 | 10.92 | 26 | 48.9 | 13 | 60.72 | 17 | 45.2 | 6 | 30.69 | 19 | 54.7 | 9 |
| 28 | 60.75 | 20 | 52.6 | 17 | 10.66 | 25 | 47.6 | 17 | 60.55 | 15 | 44.6 | 10 | 30.50 | 18 | 53.8 | 13 |
| Sept. 7 | 60.55 | 17 | 50.9 | 20 | 10.41 | 22 | 45.9 | 22 | 60.40 | 14 | 43.6 | 14 | 30.32 | 16 | 52.5 | 16 |
| 17 | 60.38 | 14 | 48.9 | 24 | 10.19 | 18 | 43.7 | 26 | 60.26 | 11 | 42.2 | 17 | 30.16 | 13 | 50.9 | 21 |
| 27 | 60.24 | 10 | 46.5 | 28 | 10.01 | 13 | 41.1 | 29 | 60.15 | 7 | 40.5 | 21 | 30.03 | 9 | 48.8 | 24 |
| Okt. 7 | 60.14 | 5 | 43.7 | 31 | 9.88 | 8 | 38.2 | 32 | 60.08 | 4 | 38.4 | 24 | 29.94 | 5 | 46.4 | 27 |
| 17 | 60.09 | — 1 | 40.6 | 33 | 9.80 | 2 | 35.0 | 35 | 60.04 | — 1 | 36.0 | 26 | 29.89 | 0 | 43.7 | 30 |
| 27 | 60.10 | 8 | 37.3 | 38 | 9.78 | — 5 | 31.5 | 40 | 60.05 | 7 | 33.4 | 32 | 29.89 | 6 | 40.7 | 35 |
| Nov. 6 | [29]60.18 | 14 | 33.5 | 36 | [31]9.83 | 12 | 27.5 | 38 | [2]60.12 | 12 | 30.2 | 31 | [2]29.95 | 11 | 37.2 | 34 |
| 16 | 60.32 | 20 | 29.9 | 36 | 9.95 | 20 | 23.7 | 37 | 60.24 | 17 | 27.1 | 31 | 30.06 | 18 | 33.8 | 34 |
| 26 | 60.52 | 26 | 26.3 | 35 | 10.15 | 26 | 20.0 | 37 | 60.41 | 23 | 24.0 | 31 | 30.24 | 23 | 30.4 | 34 |
| Dez. 6 | 60.78 | 32 | 22.8 | 33 | 10.41 | 33 | 16.3 | 34 | 60.64 | 27 | 20.9 | 31 | 30.47 | 28 | 27.0 | 32 |
| 16 | 61.10 | 36 | 19.5 | 31 | 10.74 | 37 | 12.9 | 31 | 60.91 | 30 | 17.8 | 30 | 30.75 | 32 | 23.8 | 31 |
| 26 | 61.46 | 39 | 16.4 | 26 | 11.11 | 42 | 9.8 | 27 | 61.21 | 34 | 14.8 | 26 | 31.07 | 35 | 20.7 | 27 |
| 36 | 61.85 | | 13.8 | | 11.53 | | 7.1 | | 61.55 | | 12.2 | | 31.42 | | 18.0 | |
| Mittl. Ort | 60.08 | | 47.8 | | 10.05 | | 42.4 | | 59.68 | | 42.0 | | 29.68 | | 49.7 | |
| | 527) | | | | 531) | | | | 534) | | | | 535) | | | |

| 1911 | η Centauri. 2m.5. | | | | α Centauri. 1m. | | | | α Apodis. 3m.8. | | | | ζ Bootis m. 3m.6. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. − | | AR. | | Dekl. − | | AR. | | Dekl. − | | AR. | | Dekl. + | |
| | 14h 29m | | 41° 45′ | | 14h 33m | | 60° 27′ | | 14h 36m | | 78° 39′ | | 14h 36 | | 14° 6′ | |
| Jan. 0 | 48.97s | 42 | 51.5″ | 9 | 29.75s | 57 | 52.1″ | 2 | 38.62s | 127 | 47.7″ | 3 | 52.59s | 32 | 28.8″ | 24 |
| 10 | 49.39 | 42 | 52.4 | 13 | 30.32 | 58 | 52.3 | 8 | 39.89 | 133 | 47.4 | 2 | 52.91 | 33 | 26.4 | 21 |
| 20 | 49.81 | 42 | 53.7 | 16 | 30.90 | 57 | 53.1 | 12 | 41.22 | 134 | 47.6 | 8 | 53.24 | 33 | 24.3 | 18 |
| 30 | 50.23 | 41 | 55.3 | 17 | 31.47 | 57 | 54.3 | 15 | 42.56 | 131 | 48.4 | 14 | 53.57 | 33 | 22.5 | 15 |
| Febr. 9 | 50.64 | 38 | 57.0 | 21 | 32.04 | 53 | 55.8 | 20 | 43.87 | 126 | 49.8 | 18 | 53.90 | 31 | 21.0 | 11 |
| 19 | 51.02 | 36 | 59.1 | 21 | 32.57 | 50 | 57.8 | 23 | 45.13 | 118 | 51.6 | 22 | 54.21 | 28 | 19.9 | 7 |
| März 1 | 51.38 | 32 | 61.2 | 22 | 33.07 | 45 | 60.1 | 25 | 46.31 | 108 | 53.8 | 26 | 54.49 | 26 | 19.2 | 3 |
| 11 | 51.70 | 28 | 63.4 | 22 | 33.52 | 39 | 62.6 | 27 | 47.39 | 95 | 56.4 | 30 | 54.75 | 23 | 18.9 | 2 |
| 21 | 51.98 | 25 | 65.6 | 22 | 33.91 | 35 | 65.3 | 28 | 48.34 | 83 | 59.4 | 32 | 54.98 | 20 | 19.1 | 5 |
| 31 | 52.23 | 21 | 67.8 | 22 | 34.26 | 28 | 68.1 | 28 | 49.17 | 67 | 62.6 | 33 | 55.18 | 16 | 19.6 | 8 |
| April 10 | 52.44 | 17 | 70.0 | 21 | 34.54 | 23 | 70.9 | 30 | 49.84 | 52 | 65.9 | 34 | 55.34 | 14 | 20.4 | 10 |
| 20 | 52.61 | 14 | 72.1 | 20 | 34.77 | 17 | 73.9 | 28 | 50.36 | 36 | 69.3 | 35 | 55.48 | 10 | 21.4 | 13 |
| 30 | 52.75 | 9 | 74.1 | 18 | 34.94 | 10 | 76.7 | 28 | 50.72 | 20 | 72.8 | 34 | 55.58 | 7 | 22.7 | 13 |
| Mai 10 | 52.84 | 6 | 75.9 | 17 | 35.04 | 4 | 79.5 | 26 | 50.92 | 2 | 76.2 | 33 | 55.65 | 4 | 24.0 | 15 |
| 20 | 52.90 | 2 | 77.6 | 16 | 35.08 | 1 | 82.1 | 24 | 50.94 | 13 | 79.5 | 31 | 55.69 | 2 | 25.5 | 14 |
| 30 | 52.92 | 2 | 79.2 | 13 | 35.07 | 8 | 84.5 | 22 | 50.81 | 30 | 82.6 | 29 | 55.71 | 2 | 26.9 | 14 |
| Juni 9 | 52.90 | 5 | 80.5 | 10 | 34.99 | 14 | 86.7 | 18 | 50.51 | 45 | 85.5 | 26 | 55.69 | 4 | 28.3 | 12 |
| 19 | 52.85 | 9 | 81.5 | 9 | 34.85 | 19 | 88.5 | 16 | 50.06 | 59 | 88.1 | 22 | 55.65 | 6 | 29.5 | 12 |
| 29 | 52.76 | 13 | 82.4 | 5 | 34.66 | 23 | 90.1 | 12 | 49.47 | 71 | 90.3 | 17 | 55.59 | 8 | 30.7 | 10 |
| Juli 9 | 52.63 | 15 | 82.9 | 3 | 34.43 | 28 | 91.3 | 8 | 48.76 | 81 | 92.0 | 13 | 55.51 | 10 | 31.7 | 7 |
| 19 | 52.48 | 16 | 83.2 | 0 | 34.15 | 31 | 92.1 | 2 | 47.95 | 89 | 93.3 | 8 | 55.41 | 12 | 32.4 | 6 |
| 29 | 52.32 | 18 | 83.2 | 4 | 33.84 | 33 | 92.3 | 1 | 47.06 | 93 | 94.1 | 2 | 55.29 | 14 | 33.0 | 3 |
| Aug. 8 | 52.14 | 19 | 82.8 | 6 | 33.51 | 34 | 92.2 | 5 | 46.13 | 94 | 94.3 | 3 | 55.15 | 14 | 33.3 | 1 |
| 18 | 51.95 | 18 | 82.2 | 9 | 33.17 | 34 | 91.7 | 10 | 45.19 | 92 | 94.0 | 9 | 55.01 | 13 | 33.4 | 1 |
| 28 | 51.77 | 18 | 81.3 | 11 | 32.83 | 31 | 90.7 | 14 | 44.27 | 87 | 93.1 | 13 | 54.88 | 13 | 33.3 | 5 |
| Sept. 7 | 51.59 | 15 | 80.2 | 14 | 32.52 | 28 | 89.3 | 17 | 43.40 | 76 | 91.8 | 19 | 54.75 | 12 | 32.8 | 7 |
| 17 | 51.44 | 12 | 78.8 | 14 | 32.24 | 22 | 87.6 | 20 | 42.64 | 62 | 89.9 | 22 | 54.63 | 9 | 32.1 | 9 |
| 27 | 51.32 | 7 | 77.4 | 15 | 32.02 | 16 | 85.6 | 22 | 42.02 | 46 | 87.7 | 26 | 54.54 | 7 | 31.2 | 13 |
| Okt. 7 | 51.25 | 2 | 75.9 | 15 | 31.86 | 8 | 83.4 | 23 | 41.56 | 27 | 85.1 | 27 | 54.47 | 2 | 29.9 | 15 |
| 17 | 51.23 | 4 | 74.4 | 15 | 31.78 | 2 | 81.1 | 24 | 41.29 | 6 | 82.4 | 29 | 54.45 | 1 | 28.4 | 18 |
| 27 | 51.27 | 12 | 72.9 | 14 | 31.80 | 12 | 78.7 | 24 | 41.23 | 20 | 79.5 | 31 | 54.46 | 7 | 26.6 | 22 |
| Nov. 6 | 51.39 | 17 | 71.5 | 10 | 31.92 | 21 | 76.3 | 20 | 41.43 | 41 | 76.4 | 28 | 54.53 | 12 | 24.4 | 23 |
| 16 | 51.56 | 24 | 70.5 | 7 | 32.13 | 30 | 74.3 | 18 | 41.84 | 64 | 73.6 | 24 | 54.65 | 17 | 22.1 | 24 |
| 26 | 51.80 | 29 | 69.8 | 5 | 32.43 | 38 | 72.5 | 14 | 42.48 | 83 | 71.2 | 21 | 54.82 | 21 | 19.7 | 26 |
| Dez. 6 | 52.09 | 35 | 69.3 | 0 | 32.81 | 45 | 71.1 | 9 | 43.31 | 100 | 69.1 | 17 | 55.03 | 26 | 17.1 | 26 |
| 16 | 52.44 | 38 | 69.3 | 4 | 33.26 | 51 | 70.2 | 5 | 44.31 | 114 | 67.4 | 12 | 55.29 | 29 | 14.5 | 25 |
| 26 | 52.82 | 40 | 69.7 | 7 | 33.77 | 56 | 69.7 | 0 | 45.45 | 125 | 66.2 | 6 | 55.58 | 31 | 12.0 | 25 |
| 36 | 53.22 | | 70.4 | | 34.33 | | 69.7 | | 46.70 | | 65.6 | | 55.89 | | 9.5 | |
| Mittl. Ort | 51.02 | | 62.6 | | 32.72 | | 67.0 | | 45.32 | | 64.7 | | 53.89 | | 34.5 | |
| | 537) | | | | 538) | | | | 542) | | | | 543) | | | |

| 1911 | μ Virginis. 3ᵐ.9. AR. | | Dekl. − | | 109 Virginis. 3ᵐ.7. AR. | | Dekl. + | | α Librae. 2ᵐ.7. AR. | | Dekl. − | | Gr. 2164. 5ᵐ.8. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $14^h\ 38^m$ | | 5° 16′ | | $14^h\ 41^m$ | | 2° 15′ | | $14^h\ 45^m$ | | 15° 40′ | | $14^h\ 49^m$ | | 59° 38′ | |
| Jan. 0 | 20.61 | 33 | 18.3 | 20 | 43.47 | 32 | 60.2 | 22 | 55.50 | 34 | 17.9 | 17 | 9.40 | 48 | 63.3 | 27 |
| 10 | 20.94 | 33 | 20.3 | 19 | 43.79 | 33 | 58.0 | 20 | 55.84 | 34 | 19.6 | 17 | 9.88 | 50 | 60.6 | 20 |
| 20 | 21.27 | 33 | 22.2 | 19 | 44.12 | 33 | 56.0 | 18 | 56.18 | 34 | 21.3 | 17 | 10.38 | 52 | 58.6 | 15 |
| 30 | 21.60 | 33 | 24.1 | 17 | 44.45 | 32 | 54.2 | 16 | 56.52 | 33 | 23.0 | 17 | 10.90 | 52 | 57.1 | 8 |
| Febr. 9 | 21.93 | 30 | 25.8 | 14 | 44.77 | 30 | 52.6 | 13 | 56.85 | 32 | 24.7 | 16 | 11.42 | 50 | 56.3 | 2 |
| 19 | 22.23 | 28 | 27.2 | 13 | 45.07 | 29 | 51.3 | 11 | 57.17 | 30 | 26.3 | 15 | 11.92 | 48 | 56.1 | 5 |
| März 1 | 22.51 | 26 | 28.5 | 10 | 45.36 | 25 | 50.2 | 7 | 57.47 | 27 | 27.8 | 13 | 12.40 | 43 | 56.6 | 11 |
| 11 | 22.77 | 23 | 29.5 | 7 | 45.61 | 23 | 49.5 | 3 | 57.74 | 24 | 29.1 | 12 | 12.83 | 38 | 57.7 | 17 |
| 21 | 23.00 | 20 | 30.2 | 5 | 45.84 | 20 | 49.2 | 1 | 57.98 | 22 | 30.3 | 9 | 13.21 | 31 | 59.4 | 21 |
| 31 | 23.20 | 18 | 30.7 | 3 | 46.04 | 18 | 49.1 | 2 | 58.20 | 18 | 31.2 | 8 | 13.52 | 25 | 61.5 | 25 |
| April 10 | 23.38 | 14 | 31.0 | 0 | 46.22 | 14 | 49.3 | 4 | 58.38 | 16 | 32.0 | 6 | 13.77 | 18 | 64.0 | 28 |
| 20 | 23.52 | 11 | 31.0 | 1 | 46.36 | 11 | 49.7 | 6 | 58.54 | 12 | 32.6 | 5 | 13.95 | 11 | 66.8 | 30 |
| 30 | 23.63 | 8 | 30.9 | 3 | 46.47 | 8 | 50.3 | 7 | 58.66 | 10 | 33.1 | 4 | 14.06 | 4 | 69.8 | 30 |
| Mai 10 | 23.71 | 6 | 30.6 | 4 | 46.55 | 6 | 51.0 | 8 | 58.76 | 7 | 33.5 | 1 | 14.10 | 3 | 72.8 | 29 |
| 20 | 23.77 | 3 | 30.2 | 4 | 46.61 | 2 | 51.8 | 9 | 58.83 | 4 | 33.6 | 1 | 14.07 | 10 | 75.7 | 28 |
| 30 | 23.80 | 0 | 29.8 | 5 | 46.63 | 0 | 52.7 | 9 | 58.87 | 2 | 33.7 | 0 | 13.97 | 16 | 78.5 | 25 |
| Juni 9 | 23.80 | 2 | 29.3 | 6 | 46.63 | 2 | 53.6 | 9 | 58.89 | 2 | 33.7 | 0 | 13.81 | 20 | 81.0 | 22 |
| 19 | 23.78 | 5 | 28.7 | 5 | 46.61 | 5 | 54.5 | 8 | 58.87 | 4 | 33.7 | 2 | 13.61 | 25 | 83.2 | 18 |
| 29 | 23.73 | 7 | 28.2 | 5 | 46.56 | 7 | 55.3 | 7 | 58.83 | 7 | 33.5 | 2 | 13.36 | 29 | 85.0 | 14 |
| Juli 9 | 23.66 | 9 | 27.7 | 5 | 46.49 | 9 | 56.0 | 6 | 58.76 | 9 | 33.3 | 3 | 13.07 | 33 | 86.4 | 9 |
| 19 | 23.57 | 11 | 27.2 | 5 | 46.40 | 12 | 56.6 | 6 | 58.67 | 11 | 33.0 | 4 | 12.74 | 35 | 87.3 | 4 |
| 29 | 23.46 | 12 | 26.7 | 4 | 46.28 | 12 | 57.2 | 4 | 58.56 | 13 | 32.6 | 4 | 12.39 | 36 | 87.7 | 1 |
| Aug. 8 | 23.34 | 13 | 26.3 | 4 | 46.16 | 13 | 57.6 | 3 | 58.43 | 13 | 32.2 | 4 | 12.03 | 36 | 87.6 | 6 |
| 18 | 23.21 | 13 | 25.9 | 3 | 46.03 | 13 | 57.9 | 1 | 58.30 | 14 | 31.8 | 5 | 11.67 | 37 | 87.0 | 11 |
| 28 | 23.08 | 12 | 25.6 | 2 | 45.90 | 13 | 58.0 | 1 | 58.16 | 13 | 31.3 | 4 | 11.30 | 34 | 85.9 | 16 |
| Sept. 7 | 22.96 | 11 | 25.4 | 0 | 45.77 | 11 | 57.9 | 2 | 58.03 | 12 | 30.9 | 5 | 10.96 | 32 | 84.3 | 21 |
| 17 | 22.85 | 8 | 25.4 | 1 | 45.66 | 9 | 57.7 | 5 | 57.91 | 9 | 30.4 | 3 | 10.64 | 28 | 82.2 | 25 |
| 27 | 22.77 | 6 | 25.5 | 3 | 45.57 | 6 | 57.2 | 6 | 57.82 | 6 | 30.1 | 3 | 10.36 | 23 | 79.7 | 29 |
| Okt. 7 | 22.71 | 2 | 25.8 | 4 | 45.51 | 2 | 56.6 | 9 | 57.76 | 3 | 29.8 | 1 | 10.13 | 18 | 76.8 | 32 |
| 17 | 22.69 | 3 | 26.2 | 7 | 45.49 | 2 | 55.7 | 11 | 57.73 | 2 | 29.7 | 0 | 9.95 | 10 | 73.6 | 35 |
| 27 | 22.72 | 9 | 26.9 | 10 | 45.51 | 8 | 54.6 | 15 | 57.75 | 7 | 29.7 | 2 | 9.85 | 2 | 70.1 | 37 |
| Nov. 6 | 22.81 | 12 | 27.9 | 12 | 45.59 | 12 | 53.1 | 16 | 57.82 | 14 | 29.9 | 5 | 9.83 | 7 | 66.4 | 42 |
| 16 | 22.93 | 18 | 29.1 | 14 | 45.71 | 16 | 51.5 | 18 | 57.96 | 17 | 30.4 | 8 | 9.90 | 15 | 62.2 | 39 |
| 26 | 23.11 | 22 | 30.5 | 16 | 45.87 | 22 | 49.7 | 20 | 58.13 | 23 | 31.2 | 9 | 10.05 | 24 | 58.3 | 38 |
| Dez. 6 | 23.33 | 27 | 32.1 | 17 | 46.09 | 25 | 47.7 | 21 | 58.36 | 27 | 32.1 | 12 | 10.29 | 32 | 54.5 | 36 |
| 16 | 23.60 | 29 | 33.8 | 19 | 46.34 | 29 | 45.6 | 21 | 58.63 | 30 | 33.3 | 14 | 10.61 | 38 | 50.9 | 33 |
| 26 | 23.89 | 31 | 35.7 | 20 | 46.63 | 31 | 43.5 | 22 | 58.93 | 32 | 34.7 | 16 | 10.99 | 44 | 47.6 | 29 |
| 36 | 24.20 | | 37.7 | | 46.94 | | 41.3 | | 59.25 | | 36.3 | | 11.43 | | 44.7 | |
| Mittl. Ort | 22.08 | | 18.5 | | 44.89 | | 62.5 | | 57.13 | | 20.9 | | 10.76 | | 79.2 | |
| | 545) | | | | 547) | | | | 548) | | | | 549) | | | |

| 1911 | β Ursae min. 2ᵐ.0. AR. | Δ | Dekl. + | Δ | P. XIV 221. 6ᵐ.0. AR. | Δ | Dekl. + | Δ | β Lupi. 2ᵐ.7. AR. | Δ | Dekl. — | Δ | β Bootis. 3ᵐ.3. AR. | Δ | Dekl. + | Δ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $14^h\ 50^m$ | | 74° 30′ | | $14^h\ 51^m$ | | 14° 47′ | | $14^h\ 52^m$ | | 42° 46′ | | $14^h\ 58^m$ | | 40° 43′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | | s | | ″ | |
| Jan. 0 | 55.44 | 77 | 52.1 | 25 | 59.76 | 32 | 73.3 | 24 | 39.55 | 41 | 24.0 | 6 | 34.27 | 35 | 75.4 | 28 |
| 10 | 56.21 | 85 | 49.6 | 19 | 60.08 | 33 | 70.9 | 22 | 39.96 | 42 | 24.6 | 10 | 34.62 | 37 | 72.6 | 23 |
| 20 | 57.06 | 88 | 47.7 | 13 | 60.41 | 33 | 68.7 | 19 | 40.38 | 43 | 25.6 | 13 | 34.99 | 39 | 70.3 | 18 |
| 30 | 57.94 | 90 | 46.4 | 6 | 60.74 | 32 | 66.8 | 15 | 40.81 | 42 | 26.9 | 15 | 35.38 | 38 | 68.5 | 12 |
| Febr. 9 | 58.84 | 89 | 45.8 | 1 | 61.06 | 31 | 65.3 | 11 | 41.23 | 40 | 28.4 | 18 | 35.76 | 37 | 67.3 | 7 |
| 19 | 59.73 | 83 | 45.9 | 8 | 61.37 | 30 | 64.2 | 7 | 41.63 | 38 | 30.2 | 19 | 36.13 | 35 | 66.6 | 0 |
| März 1 | 60.56 | 76 | 46.7 | 14 | 61.67 | 27 | 63.5 | 3 | 42.01 | 35 | 32.1 | 20 | 36.48 | 32 | 66.6 | 5 |
| 11 | 61.32 | 66 | 48.1 | 19 | 61.94 | 23 | 63.2 | 2 | 42.36 | 31 | 34.1 | 20 | 36.80 | 29 | 67.1 | 11 |
| 21 | 61.98 | 54 | 50.0 | 24 | 62.17 | 21 | 63.4 | 5 | 42.67 | 28 | 36.1 | 22 | 37.09 | 24 | 68.2 | 15 |
| 31 | 62.52 | 41 | 52.4 | 27 | 62.38 | 18 | 63.9 | 8 | 42.95 | 25 | 38.3 | 21 | 37.33 | 20 | 69.7 | 19 |
| April 10 | 62.93 | 26 | 55.1 | 30 | 62.56 | 15 | 64.7 | 11 | 43.20 | 20 | 40.4 | 20 | 37.53 | 16 | 71.6 | 23 |
| 20 | 63.19 | 13 | 58.1 | 31 | 62.71 | 12 | 65.8 | 13 | 43.40 | 17 | 42.4 | 20 | 37.69 | 12 | 73.9 | 24 |
| 30 | 63.32 | 2 | 61.2 | 31 | 62.83 | 8 | 67.1 | 14 | 43.57 | 12 | 44.4 | 19 | 37.81 | 8 | 76.3 | 26 |
| Mai 10 | 63.30 | 15 | 64.3 | 29 | 62.91 | 5 | 68.5 | 15 | 43.69 | 9 | 46.3 | 17 | 37.89 | 3 | 78.9 | 25 |
| 20 | 63.15 | 28 | 67.2 | 28 | 62.96 | 3 | 70.0 | 16 | 43.78 | 5 | 48.0 | 17 | 37.92 | 1 | 81.4 | 25 |
| 30 | 62.87 | 40 | 70.0 | 25 | 62.99 | 0 | 71.6 | 14 | 43.83 | 1 | 49.7 | 14 | 37.91 | 4 | 83.9 | 24 |
| Juni 9 | 62.47 | 50 | 72.5 | 22 | 62.99 | 3 | 73.0 | 14 | 43.84 | 4 | 51.1 | 11 | 37.87 | 8 | 86.3 | 21 |
| 19 | 61.97 | 59 | 74.7 | 17 | 62.96 | 5 | 74.4 | 12 | 43.80 | 6 | 52.2 | 10 | 37.79 | 12 | 88.4 | 18 |
| 29 | 61.38 | 66 | 76.4 | 12 | 62.91 | 8 | 75.6 | 11 | 43.74 | 11 | 53.2 | 8 | 37.67 | 14 | 90.2 | 14 |
| Juli 9 | 60.72 | 72 | 77.6 | 8 | 62.83 | 10 | 76.7 | 8 | 43.63 | 14 | 54.0 | 5 | 37.53 | 17 | 91.6 | 11 |
| 19 | 60.00 | 76 | 78.4 | 2 | 62.73 | 12 | 77.5 | 6 | 43.49 | 16 | 54.5 | 1 | 37.36 | 19 | 92.7 | 7 |
| 29 | 59.24 | 78 | 78.6 | 4 | 62.61 | 13 | 78.1 | 4 | 43.33 | 19 | 54.6 | 1 | 37.17 | 21 | 93.4 | 2 |
| Aug. 8 | 58.46 | 78 | 78.2 | 8 | 62.48 | 15 | 78.5 | 2 | 43.14 | 19 | 54.5 | 4 | 36.96 | 21 | 93.6 | 2 |
| 18 | 57.68 | 77 | 77.4 | 14 | 62.33 | 14 | 78.7 | 1 | 42.95 | 20 | 54.1 | 8 | 36.75 | 22 | 93.4 | 6 |
| 28 | 56.91 | 72 | 76.0 | 18 | 62.19 | 14 | 78.6 | 4 | 42.75 | 19 | 53.3 | 9 | 36.53 | 21 | 92.8 | 10 |
| Sept. 7 | 56.19 | 68 | 74.2 | 24 | 62.05 | 13 | 78.2 | 7 | 42.56 | 17 | 52.4 | 12 | 36.32 | 20 | 91.8 | 15 |
| 17 | 55.51 | 60 | 71.8 | 27 | 61.92 | 10 | 77.5 | 9 | 42.39 | 14 | 51.2 | 14 | 36.12 | 17 | 90.3 | 19 |
| 27 | 54.91 | 51 | 69.1 | 31 | 61.82 | 8 | 76.6 | 13 | 42.25 | 10 | 49.8 | 14 | 35.95 | 13 | 88.4 | 23 |
| Okt. 7 | 54.40 | 41 | 66.0 | 35 | 61.74 | 5 | 75.3 | 15 | 42.15 | 5 | 48.4 | 16 | 35.82 | 10 | 86.1 | 26 |
| 17 | 53.99 | 28 | 62.5 | 36 | 61.69 | 0 | 73.8 | 18 | 42.10 | 1 | 46.8 | 14 | 35.72 | 5 | 83.5 | 29 |
| 27 | 53.71 | 14 | 58.9 | 39 | 61.69 | 5 | 72.0 | 20 | 42.11 | 7 | 45.4 | 14 | 35.67 | 1 | 80.6 | 32 |
| Nov. 6 | 53.57 | 2 | 55.0 | 43 | 61.74 | 11 | 70.0 | 25 | 42.18 | 16 | 44.0 | 13 | 35.68 | 8 | 77.4 | 36 |
| 16 | 53.59 | 17 | 50.7 | 39 | 61.85 | 15 | 67.5 | 24 | 42.34 | 22 | 42.7 | 9 | 35.76 | 14 | 73.8 | 35 |
| 26 | 53.76 | 33 | 46.8 | 38 | 62.00 | 20 | 65.1 | 26 | 42.56 | 27 | 41.8 | 7 | 35.90 | 19 | 70.3 | 35 |
| Dez. 6 | 54.09 | 47 | 43.0 | 35 | 62.20 | 24 | 62.5 | 26 | 42.83 | 33 | 41.1 | 3 | 36.09 | 25 | 66.8 | 35 |
| 16 | 54.56 | 60 | 39.5 | 32 | 62.44 | 28 | 59.9 | 26 | 43.16 | 37 | 40.8 | 2 | 36.34 | 30 | 63.3 | 32 |
| 26 | 55.16 | 72 | 36.3 | 28 | 62.72 | 30 | 57.3 | 24 | 43.53 | 40 | 41.0 | 4 | 36.64 | 33 | 60.1 | 29 |
| 36 | 55.88 | | 33.5 | | 63.02 | | 54.9 | | 43.93 | | 41.4 | | 36.97 | | 57.2 | |
| Mittl. Ort | 57.21 | | 69.3 | | 61.14 | | 79.5 | | 41.78 | | 33.8 | | 35.61 | | 88.0 | |
| | 550) | | | | 551) | | | | 552) | | | | 555) | | | |

| 1911 | γ Scorpii. $3^m.4$. AR. | | γ Scorpii. Dekl. − | | ψ Bootis. $4^m.5$. AR. | | ψ Bootis. Dekl. + | | ζ Lupi. $3^m.4$. AR. | | ζ Lupi. Dekl. − | | γ Triang. austr. $2^m.9$. AR. | | γ Triang. austr. Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $14^h\ 58^m$ | | 24° 55′ | | $15^h\ 0^m$ | | 27° 17′ | | $15^h\ 5^m$ | | 51° 45′ | | $15^h\ 10^m$ | | 68° 20′ | |
| Jan. 0 | 49.62 | 35 | 53.2 | 12 | 36.53 | 33 | 29.4 | 27 | 50.31 | 47 | 29.2 | 1 | 30.88 | 71 | 52.6 | 5 |
| 10 | 49.97 | 35 | 54.4 | 14 | 36.86 | 34 | 26.7 | 23 | 50.78 | 48 | 29.3 | 6 | 31.59 | 75 | 52.1 | 0 |
| 20 | 50.32 | 36 | 55.8 | 16 | 37.20 | 34 | 24.4 | 19 | 51.26 | 49 | 29.9 | 10 | 32.34 | 76 | 52.1 | 5 |
| 30 | 50.68 | 36 | 57.4 | 15 | 37.54 | 35 | 22.5 | 14 | 51.75 | 49 | 30.9 | 12 | 33.10 | 76 | 52.6 | 10 |
| Febr. 9 | 51.04 | 34 | 58.9 | 17 | 37.89 | 33 | 21.1 | 9 | 52.24 | 47 | 32.1 | 16 | 33.86 | 75 | 53.6 | 14 |
| 19 | 51.38 | 31 | 60.6 | 16 | 38.22 | 31 | 20.2 | 4 | 52.71 | 45 | 33.7 | 18 | 34.61 | 71 | 55.0 | 18 |
| März 1 | 51.69 | 30 | 62.2 | 15 | 38.53 | 29 | 19.8 | 1 | 53.16 | 41 | 35.5 | 21 | 35.32 | 66 | 56.8 | 21 |
| 11 | 51.99 | 26 | 63.7 | 15 | 38.82 | 25 | 19.9 | 6 | 53.57 | 38 | 37.6 | 22 | 35.98 | 62 | 58.9 | 24 |
| 21 | 52.25 | 24 | 65.2 | 13 | 39.07 | 23 | 20.5 | 11 | 53.95 | 34 | 39.8 | 23 | 36.60 | 55 | 61.3 | 27 |
| 31 | 52.49 | 21 | 66.5 | 12 | 39.30 | 19 | 21.6 | 14 | 54.29 | 30 | 42.1 | 23 | 37.15 | 47 | 64.0 | 28 |
| April 10 | 52.70 | 18 | 67.7 | 11 | 39.49 | 15 | 23.0 | 16 | 54.59 | 26 | 44.4 | 24 | 37.62 | 40 | 66.8 | 29 |
| 20 | 52.88 | 15 | 68.8 | 10 | 39.64 | 13 | 24.6 | 20 | 54.85 | 20 | 46.8 | 24 | 38.02 | 32 | 69.7 | 30 |
| 30 | 53.03 | 11 | 69.8 | 8 | 39.77 | 8 | 26.6 | 20 | 55.05 | 17 | 49.2 | 23 | 38.34 | 24 | 72.7 | 31 |
| Mai 10 | 53.14 | 9 | 70.6 | 8 | 39.85 | 5 | 28.6 | 21 | 55.22 | 11 | 51.5 | 22 | 38.58 | 15 | 75.8 | 29 |
| 20 | 53.23 | 6 | 71.4 | 6 | 39.90 | 2 | 30.7 | 21 | 55.33 | 7 | 53.7 | 21 | 38.73 | 6 | 78.7 | 28 |
| 30 | 53.29 | 2 | 72.0 | 4 | 39.92 | 1 | 32.8 | 19 | 55.40 | 1 | 55.8 | 20 | 38.79 | 2 | 81.5 | 27 |
| Juni 9 | 53.31 | 1 | 72.4 | 4 | 39.91 | 4 | 34.7 | 18 | 55.41 | 3 | 57.8 | 16 | 38.77 | 11 | 84.2 | 24 |
| 19 | 53.30 | 4 | 73.8 | 2 | 39.87 | 8 | 36.5 | 16 | 55.38 | 9 | 59.4 | 14 | 38.66 | 20 | 86.6 | 21 |
| 29 | 53.26 | 7 | 73.0 | 1 | 39.79 | 10 | 38.1 | 13 | 55.29 | 13 | 60.8 | 11 | 38.46 | 27 | 88.7 | 18 |
| Juli 9 | 53.19 | 9 | 73.1 | 0 | 39.69 | 12 | 39.4 | 11 | 55.16 | 16 | 61.9 | 9 | 38.19 | 34 | 90.5 | 13 |
| 19 | 53.10 | 12 | 73.1 | 1 | 39.57 | 15 | 40.5 | 7 | 55.00 | 21 | 62.8 | 4 | 37.85 | 39 | 91.8 | 10 |
| 29 | 52.98 | 13 | 73.0 | 3 | 39.42 | 15 | 41.2 | 4 | 54.79 | 23 | 63.2 | 2 | 37.46 | 44 | 92.8 | 4 |
| Aug. 8 | 52.85 | 15 | 72.7 | 5 | 39.27 | 17 | 41.6 | 0 | 54.56 | 24 | 63.4 | 3 | 37.02 | 47 | 93.2 | 0 |
| 18 | 52.70 | 15 | 72.2 | 5 | 39.10 | 17 | 41.6 | 3 | 54.32 | 26 | 63.1 | 6 | 36.55 | 48 | 93.2 | 5 |
| 28 | 52.55 | 14 | 71.7 | 6 | 38.93 | 17 | 41.3 | 7 | 54.06 | 24 | 62.5 | 9 | 36.07 | 45 | 92.7 | 10 |
| Sept. 7 | 52.41 | 14 | 71.1 | 7 | 38.76 | 15 | 40.6 | 10 | 53.82 | 22 | 61.6 | 13 | 35.62 | 41 | 91.7 | 14 |
| 17 | 52.27 | 11 | 70.4 | 7 | 38.61 | 14 | 39.6 | 14 | 53.60 | 20 | 60.3 | 15 | 35.21 | 37 | 90.3 | 18 |
| 27 | 52.16 | 7 | 69.7 | 7 | 38.47 | 10 | 38.2 | 18 | 53.40 | 14 | 58.8 | 18 | 34.84 | 28 | 88.5 | 21 |
| Okt. 7 | 52.09 | 4 | 69.0 | 6 | 38.37 | 7 | 36.4 | 20 | 53.26 | 8 | 57.0 | 18 | 34.56 | 19 | 86.4 | 24 |
| 17 | 52.05 | 1 | 68.4 | 5 | 38.30 | 2 | 34.4 | 24 | 53.18 | 2 | 55.2 | 19 | 34.37 | 8 | 84.0 | 25 |
| 27 | 52.06 | 6 | 67.9 | 3 | 38.28 | 3 | 32.0 | 26 | 53.16 | 6 | 53.3 | 18 | 34.29 | 4 | 81.5 | 26 |
| Nov. 6 | 52.12 | 13 | 67.6 | 2 | 38.31 | 8 | 29.4 | 32 | 53.22 | 15 | 51.5 | 19 | 34.33 | 19 | 78.9 | 27 |
| 16 | [10] 52.25 | 18 | 67.4 | 2 | [10] 38.39 | 14 | 26.2 | 30 | [11] 53.37 | 22 | 49.6 | 15 | [13] 34.52 | 31 | 76.2 | 23 |
| 26 | 52.43 | 23 | 67.6 | 4 | 38.53 | 19 | 23.2 | 31 | 53.59 | 30 | 48.1 | 12 | 34.83 | 42 | 73.9 | 19 |
| Dez. 6 | 52.66 | 27 | 68.0 | 6 | 38.72 | 24 | 20.1 | 30 | 53.89 | 36 | 46.9 | 8 | 35.25 | 52 | 72.0 | 17 |
| 16 | 52.93 | 30 | 68.6 | 9 | 38.96 | 27 | 17.1 | 30 | 54.25 | 41 | 46.1 | 5 | 35.77 | 62 | 70.3 | 12 |
| 26 | 53.23 | 34 | 69.5 | 11 | 39.23 | 31 | 14.1 | 27 | 54.66 | 45 | 45.6 | 0 | 36.39 | 68 | 69.1 | 7 |
| 36 | 53.57 | | 70.6 | | 39.54 | | 11.4 | | 55.11 | | 45.6 | | 37.07 | | 68.4 | |
| Mittl. Ort | 51.45 | | 58.1 | | 37.91 | | 39.0 | | 53.00 | | 40.0 | | 35.16 | | 65.7 | |
| | 556) | | | | 557) | | | | 558) | | | | 560) | | | |

| 1911 | δ Bootis. $3^m.2$. AR. | | Dekl. + | | β Librae. $2^m.5$. AR. | | Dekl. − | | 1 H. Urs. min. $5^m.3$. AR. | | Dekl. + | | φ¹ Lupi. $3^m.5$. AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $15^h\ 11^m$ | | 33° 38′ | | $15^h\ 12^m$ | | 9° 3′ | | $15^h\ 13^m$ | | 67° 40′ | | $15^h\ 16^m$ | | 35° 56′ | |
| Jan. 0 | 53.45 | 33 | 35.7 | 27 | 11.27 | 32 | 18.5 | 17 | 34.95 | 55 | 48.0 | 28 | 7.08 | 37 | 14.2 | 6 |
| 10 | 53.78 | 35 | 33.0 | 24 | 11.59 | 32 | 20.2 | 17 | 35.50 | 60 | 45.2 | 23 | 7.45 | 39 | 14.8 | 10 |
| 20 | 54.13 | 35 | 30.6 | 20 | 11.91 | 33 | 21.9 | 17 | 36.10 | 64 | 42.9 | 17 | 7.84 | 39 | 15.8 | 12 |
| 30 | 54.48 | 36 | 28.6 | 14 | 12.24 | 33 | 23.6 | 16 | 36.74 | 65 | 41.2 | 10 | 8.23 | 39 | 17.0 | 13 |
| Febr. 9 | 54.84 | 35 | 27.2 | 9 | 12.57 | 32 | 25.2 | 15 | 37.39 | 65 | 40.2 | 3 | 8.62 | 38 | 18.3 | 15 |
| 19 | 55.19 | 33 | 26.3 | 3 | 12.89 | 30 | 26.7 | 12 | 38.04 | 62 | 39.9 | 3 | 9.00 | 36 | 19.8 | 16 |
| März 1 | 55.52 | 30 | 26.0 | 2 | 13.19 | 28 | 27.9 | 10 | 38.66 | 58 | 40.2 | 10 | 9.36 | 34 | 21.4 | 17 |
| 11 | 55.82 | 28 | 26.2 | 8 | 13.47 | 26 | 28.9 | 8 | 39.24 | 52 | 41.2 | 16 | 9.70 | 31 | 23.1 | 17 |
| 21 | 56.10 | 24 | 27.0 | 12 | 13.73 | 23 | 29.7 | 6 | 39.76 | 44 | 42.8 | 21 | 10.01 | 28 | 24.8 | 16 |
| 31 | 56.34 | 21 | 28.2 | 16 | 13.96 | 20 | 30.3 | 4 | 40.20 | 36 | 44.9 | 25 | 10.29 | 25 | 26.4 | 17 |
| April 10 | 56.55 | 17 | 29.8 | 20 | 14.16 | 18 | 30.7 | 1 | 40.56 | 26 | 47.4 | 28 | 10.54 | 22 | 28.1 | 16 |
| 20 | 56.72 | 13 | 31.8 | 22 | 14.34 | 14 | 30.8 | 0 | 40.82 | 17 | 50.2 | 30 | 10.76 | 18 | 29.7 | 15 |
| 30 | 56.85 | 10 | 34.0 | 23 | 14.48 | 13 | 30.8 | 1 | 40.99 | 8 | 53.2 | 31 | 10.94 | 15 | 31.2 | 14 |
| Mai 10 | 56.95 | 6 | 36.3 | 23 | 14.61 | 9 | 30.7 | 2 | 41.07 | 2 | 56.3 | 31 | 11.09 | 12 | 32.6 | 14 |
| 20 | 57.01 | 2 | 38.6 | 24 | 14.70 | 6 | 30.5 | 3 | 41.05 | 12 | 59.4 | 30 | 11.21 | 7 | 34.0 | 12 |
| 30 | 57.03 | 2 | 41.0 | 22 | 14.76 | 3 | 30.2 | 4 | 40.93 | 20 | 62.4 | 27 | 11.28 | 4 | 35.2 | 11 |
| Juni 9 | 57.01 | 5 | 43.2 | 20 | 14.79 | 0 | 29.8 | 5 | 40.73 | 28 | 65.1 | 23 | 11.32 | 1 | 36.3 | 10 |
| 19 | 56.96 | 8 | 45.2 | 18 | 14.79 | 2 | 29.3 | 4 | 40.45 | 35 | 67.4 | 21 | 11.33 | 4 | 37.3 | 7 |
| 29 | 56.88 | 11 | 47.0 | 15 | 14.77 | 5 | 28.9 | 4 | 40.10 | 40 | 69.5 | 16 | 11.29 | 7 | 38.0 | 6 |
| Juli 9 | 56.77 | 14 | 48.5 | 12 | 14.72 | 8 | 28.5 | 5 | 39.70 | 46 | 71.1 | 11 | 11.22 | 10 | 38.6 | 4 |
| 19 | 56.63 | 16 | 49.7 | 8 | 14.64 | 11 | 28.0 | 4 | 39.24 | 50 | 72.2 | 6 | 11.12 | 13 | 39.0 | 2 |
| 29 | 56.47 | 17 | 50.5 | 5 | 14.53 | 11 | 27.6 | 4 | 38.74 | 52 | 72.8 | 1 | 10.99 | 16 | 39.2 | 0 |
| Aug. 8 | 56.30 | 20 | 51.0 | 0 | 14.42 | 14 | 27.2 | 3 | 38.22 | 53 | 72.9 | 4 | 10.83 | 17 | 39.2 | 3 |
| 18 | 56.10 | 19 | 51.0 | 3 | 14.28 | 14 | 26.9 | 3 | 37.69 | 54 | 72.5 | 10 | 10.66 | 18 | 38.9 | 5 |
| 28 | 55.91 | 19 | 50.7 | 8 | 14.14 | 13 | 26.6 | 3 | 37.15 | 52 | 71.5 | 14 | 10.48 | 18 | 38.4 | 7 |
| Sept. 7 | 55.72 | 18 | 49.9 | 12 | 14.01 | 13 | 26.3 | 1 | 36.63 | 49 | 70.1 | 19 | 10.30 | 16 | 37.7 | 9 |
| 17 | 55.54 | 15 | 48.7 | 15 | 13.88 | 12 | 26.2 | 1 | 36.14 | 45 | 68.2 | 24 | 10.14 | 14 | 36.8 | 10 |
| 27 | 55.39 | 13 | 47.2 | 19 | 13.76 | 8 | 26.1 | 1 | 35.69 | 39 | 65.8 | 29 | 10.00 | 11 | 35.8 | 11 |
| Okt. 7 | 55.26 | 9 | 45.3 | 23 | 13.68 | 5 | 26.2 | 2 | 35.30 | 31 | 62.9 | 32 | 9.89 | 6 | 34.7 | 11 |
| 17 | 55.17 | 5 | 43.0 | 26 | 13.63 | 0 | 26.4 | 4 | 34.99 | 23 | 59.7 | 34 | 9.83 | 2 | 33.6 | 11 |
| 27 | 55.12 | 1 | 40.4 | 29 | 13.63 | 4 | 26.8 | 6 | 34.76 | 13 | 56.3 | 38 | 9.81 | 5 | 32.5 | 10 |
| Nov. 6 | 55.13 | 7 | 37.5 | 34 | 13.67 | 10 | 27.4 | 9 | 34.63 | 3 | 52.5 | 42 | 9.86 | 12 | 31.5 | 10 |
| 16 | [13] 55.20 | 12 | 34.1 | 32 | [13] 13.77 | 15 | 28.3 | 10 | [13] 34.60 | 10 | 48.3 | 40 | [14] 9.98 | 17 | 30.5 | 6 |
| 26 | 55.32 | 17 | 30.9 | 33 | 13.92 | 19 | 29.3 | 13 | 34.70 | 20 | 44.3 | 38 | 10.15 | 23 | 29.9 | 3 |
| Dez. 6 | 55.49 | 23 | 27.6 | 33 | 14.11 | 24 | 30.6 | 14 | 34.90 | 32 | 40.5 | 37 | 10.38 | 28 | 29.6 | 1 |
| 16 | 55.72 | 27 | 24.3 | 31 | 14.35 | 27 | 32.0 | 16 | 35.22 | 41 | 36.8 | 34 | 10.66 | 33 | 29.5 | 2 |
| 26 | 55.99 | 31 | 21.2 | 30 | 14.62 | 31 | 33.6 | 17 | 35.63 | 50 | 33.4 | 31 | 10.99 | 35 | 29.7 | 5 |
| 36 | 56.30 | | 18.2 | | 14.93 | | 35.3 | | 36.13 | | 30.3 | | 11.34 | | 30.2 | |
| Mittl. Ort | 54.88 | | 46.9 | | 12.95 | | 18.4 | | 36.76 | | 64.3 | | 9.25 | | 20.9 | |
| | 563) | | | | 564) | | | | 565) | | | | 566) | | | |

| 1911 | γ Ursae min. 3ᵐ.0. AR. | | Dekl. + | | μ Bootis. 4ᵐ.1. AR. | | Dekl. + | | ι Draconis. 3ᵐ.2. AR. | | Dekl. + | | β Coron. bor. 3ᵐ.7. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $15^h\,20^m$ | | 72° 8′ | | $15^h\,21^m$ | | 37° 40′ | | $15^h\,22^m$ | | 59° 16′ | | $15^h\,24^m$ | | 29° 24′ | |
| Jan. 0 | $49^s.55$ | 62 | 45″.9 | 28 | $6^s.19$ | 33 | 67″.8 | 29 | $55^s.21$ | 42 | 23″.9 | 30 | $8^s.07$ | 31 | 32″.9 | 28 |
| 10 | 50.17 | 70 | 43.1 | 22 | 6.52 | 35 | 64.9 | 24 | 55.63 | 47 | 20.9 | 24 | 8.38 | 33 | 30.1 | 24 |
| 20 | 50.87 | 75 | 40.9 | 17 | 6.87 | 36 | 62.5 | 20 | 56.10 | 49 | 18.5 | 19 | 8.71 | 34 | 27.7 | 20 |
| 30 | 51.62 | 78 | 39.2 | 10 | 7.23 | 37 | 60.5 | 15 | 56.59 | 51 | 16.6 | 12 | 9.05 | 34 | 25.7 | 16 |
| Febr. 9 | 52.40 | 78 | 38.2 | 4 | 7.60 | 36 | 59.0 | 9 | 57.10 | 51 | 15.4 | 6 | 9.39 | 34 | 24.1 | 10 |
| 19 | 53.18 | 76 | 37.8 | 4 | 7.96 | 35 | 58.1 | 3 | 57.61 | 49 | 14.8 | 1 | 9.73 | 33 | 23.1 | 5 |
| März 1 | 53.94 | 70 | 38.2 | 10 | 8.31 | 32 | 57.8 | 3 | 58.10 | 46 | 14.9 | 7 | 10.06 | 30 | 22.6 | 1 |
| 11 | 54.64 | 64 | 39.2 | 15 | 8.63 | 29 | 58.1 | 8 | 58.56 | 41 | 15.6 | 14 | 10.36 | 27 | 22.7 | 5 |
| 21 | 55.28 | 54 | 40.7 | 21 | 8.92 | 26 | 58.9 | 14 | 58.97 | 36 | 17.0 | 19 | 10.63 | 25 | 23.2 | 10 |
| 31 | 55.82 | 44 | 42.8 | 26 | 9.18 | 22 | 60.3 | 17 | 59.33 | 30 | 18.9 | 23 | 10.88 | 22 | 24.2 | 15 |
| April 10 | 56.26 | 33 | 45.4 | 28 | 9.40 | 18 | 62.0 | 21 | 59.63 | 23 | 21.2 | 27 | 11.10 | 17 | 25.7 | 17 |
| 20 | 56.59 | 20 | 48.2 | 31 | 9.58 | 15 | 64.1 | 23 | 59.86 | 17 | 23.9 | 29 | 11.27 | 15 | 27.4 | 21 |
| 30 | 56.79 | 8 | 51.3 | 31 | 9.73 | 10 | 66.4 | 25 | 60.03 | 9 | 26.8 | 30 | 11.42 | 11 | 29.5 | 21 |
| Mai 10 | 56.87 | 3 | 54.4 | 31 | 9.83 | 6 | 68.9 | 25 | 60.12 | 3 | 29.8 | 31 | 11.53 | 7 | 31.6 | 23 |
| 20 | 56.84 | 16 | 57.5 | 30 | 9.89 | 3 | 71.4 | 26 | 60.15 | 4 | 32.9 | 29 | 11.60 | 4 | 33.9 | 22 |
| 30 | 56.68 | 26 | 60.5 | 27 | 9.92 | 2 | 74.0 | 23 | 60.11 | 10 | 35.8 | 28 | 11.64 | 1 | 36.1 | 22 |
| Juni 9 | 56.42 | 36 | 63.2 | 25 | 9.90 | 5 | 76.3 | 23 | 60.01 | 16 | 38.6 | 25 | 11.65 | 3 | 38.3 | 20 |
| 19 | 56.06 | 44 | 65.7 | 21 | 9.85 | 9 | 78.6 | 19 | 59.85 | 22 | 41.1 | 21 | 11.62 | 6 | 40.3 | 18 |
| 29 | 55.62 | 53 | 67.8 | 16 | 9.76 | 12 | 80.5 | 17 | 59.63 | 26 | 43.2 | 18 | 11.56 | 10 | 42.1 | 15 |
| Juli 9 | 55.09 | 59 | 69.4 | 12 | 9.64 | 15 | 82.2 | 13 | 59.37 | 31 | 45.0 | 13 | 11.46 | 12 | 43.6 | 13 |
| 19 | 54.50 | 64 | 70.6 | 6 | 9.49 | 17 | 83.5 | 9 | 59.06 | 34 | 46.3 | 9 | 11.34 | 15 | 44.9 | 9 |
| 29 | 53.86 | 68 | 71.2 | 2 | 9.32 | 20 | 84.4 | 5 | 58.72 | 36 | 47.2 | 3 | 11.19 | 16 | 45.8 | 6 |
| Aug. 8 | 53.18 | 69 | 71.4 | 4 | 9.12 | 21 | 84.9 | 1 | 58.36 | 37 | 47.5 | 1 | 11.03 | 18 | 46.4 | 2 |
| 18 | 52.49 | 69 | 71.0 | 8 | 8.91 | 21 | 85.0 | 4 | 57.99 | 39 | 47.4 | 7 | 10.85 | 18 | 46.6 | 2 |
| 28 | 51.80 | 67 | 70.2 | 15 | 8.70 | 21 | 84.6 | 7 | 57.60 | 37 | 46.7 | 12 | 10.67 | 18 | 46.4 | 6 |
| Sept. 7 | 51.13 | 64 | 68.7 | 19 | 8.49 | 20 | 83.9 | 12 | 57.23 | 36 | 45.5 | 16 | 10.49 | 18 | 45.8 | 9 |
| 17 | 50.49 | 59 | 66.8 | 23 | 8.29 | 18 | 82.7 | 16 | 56.87 | 33 | 43.9 | 21 | 10.31 | 16 | 44.9 | 13 |
| 27 | 49.90 | 52 | 64.5 | 28 | 8.11 | 15 | 81.1 | 20 | 56.54 | 28 | 41.8 | 26 | 10.15 | 13 | 43.6 | 17 |
| Okt. 7 | 49.38 | 43 | 61.7 | 31 | 7.96 | 11 | 79.1 | 24 | 56.26 | 23 | 39.2 | 30 | 10.02 | 9 | 41.9 | 20 |
| 17 | 48.95 | 33 | 58.6 | 35 | 7.85 | 7 | 76.7 | 27 | 56.03 | 17 | 36.2 | 33 | 9.93 | 5 | 39.9 | 24 |
| 27 | 48.62 | 22 | 55.1 | 37 | 7.78 | 1 | 74.0 | 29 | 55.86 | 9 | 32.9 | 35 | 9.88 | 1 | 37.5 | 26 |
| Nov. 6 | 48.40 | 8 | 51.4 | 42 | 7.77 | 5 | 71.1 | 35 | 55.77 | 1 | 29.4 | 37 | 9.87 | 5 | 34.9 | 29 |
| 16 | 48.32 | 6 | 47.2 | 39 | 7.82 | 10 | 67.6 | 34 | 55.76 | 9 | 25.7 | 43 | 9.92 | 12 | 32.0 | 33 |
| 26 | 48.38 | 20 | 43.3 | 38 | 7.92 | 17 | 64.2 | 34 | 55.85 | 17 | 21.4 | 38 | 10.04 | 16 | 28.7 | 32 |
| Dez. 6 | 48.58 | 33 | 39.5 | 38 | 8.09 | 22 | 60.8 | 34 | 56.02 | 25 | 17.6 | 37 | 10.20 | 21 | 25.5 | 31 |
| 16 | 48.91 | 46 | 35.7 | 34 | 8.31 | 26 | 57.4 | 33 | 56.27 | 32 | 13.9 | 35 | 10.41 | 26 | 22.4 | 30 |
| 26 | 49.37 | 56 | 32.3 | 31 | 8.57 | 31 | 54.1 | 30 | 56.59 | 39 | 10.4 | 32 | 10.67 | 29 | 19.4 | 29 |
| 36 | 49.93 | | 29.2 | | 8.88 | | 51.1 | | 56.98 | | 7.2 | | 10.96 | | 16.5 | |
| Mittl. Ort | 51.67 | | 62.5 | | 7.68 | | 79.7 | | 56.89 | | 39.2 | | 9.57 | | 43.1 | |
| | 569) | | | | 568) | | | | 571) | | | | 572) | | | |

| 1911 | ν¹ Bootis. 4ᵐ.8. AR. | | Dekl. + | | γ Lupi. 2ᵐ.9. AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|
| | 15ʰ 27ᵐ | | 41° 7′ | | 15ʰ 29ᵐ | | 40° 51′ | |
| Jan. 0 | 42.40 | 33 | 57.0 | 30 | 9.89 | 38 | 58.8 | 3 |
| 10 | 42.73 | 36 | 54.0 | 25 | 10.27 | 41 | 59.1 | 7 |
| 20 | 43.09 | 37 | 51.5 | 20 | 10.68 | 41 | 59.8 | 9 |
| 30 | 43.46 | 38 | 49.5 | 15 | 11.09 | 42 | 60.7 | 11 |
| Febr. 9 | 43.84 | 37 | 48.0 | 9 | 11.51 | 40 | 61.8 | 14 |
| 19 | 44.21 | 36 | 47.1 | 3 | 11.91 | 39 | 63.2 | 15 |
| März 1 | 44.57 | 34 | 46.8 | 3 | 12.30 | 37 | 64.7 | 16 |
| 11 | 44.91 | 31 | 47.1 | 9 | 12.67 | 34 | 66.3 | 17 |
| 21 | 45.22 | 27 | 48.0 | 14 | 13.01 | 31 | 68.0 | 18 |
| 31 | 45.49 | 24 | 49.4 | 18 | 13.32 | 29 | 69.8 | 17 |
| April 10 | 45.73 | 19 | 51.2 | 22 | 13.61 | 24 | 71.5 | 18 |
| 20 | 45.92 | 15 | 53.4 | 25 | 13.85 | 21 | 73.3 | 17 |
| 30 | 46.07 | 11 | 55.9 | 26 | 14.06 | 17 | 75.0 | 16 |
| Mai 10 | 46.18 | 7 | 58.5 | 26 | 14.23 | 14 | 76.6 | 16 |
| 20 | 46.25 | 2 | 61.1 | 27 | 14.37 | 9 | 78.2 | 15 |
| 30 | 46.27 | 1 | 63.8 | 25 | 14.46 | 6 | 79.7 | 14 |
| Juni 9 | 46.26 | 6 | 66.3 | 23 | 14.52 | 1 | 81.1 | 12 |
| 19 | 46.20 | 10 | 68.6 | 21 | 14.53 | 3 | 82.3 | 10 |
| 29 | 46.10 | 13 | 70.7 | 17 | 14.50 | 7 | 83.3 | 9 |
| Juli 9 | 45.97 | 16 | 72.4 | 14 | 14.43 | 10 | 84.2 | 6 |
| 19 | 45.81 | 19 | 73.8 | 9 | 14.33 | 14 | 84.8 | 4 |
| 29 | 45.62 | 21 | 74.7 | 6 | 14.19 | 17 | 85.2 | 1 |
| Aug. 8 | 45.41 | 22 | 75.3 | 1 | 14.02 | 19 | 85.3 | 1 |
| 18 | 45.19 | 23 | 75.4 | 3 | 13.83 | 20 | 85.2 | 4 |
| 28 | 44.96 | 23 | 75.1 | 8 | 13.63 | 20 | 84.8 | 7 |
| Sept. 7 | 44.73 | 22 | 74.3 | 12 | 13.43 | 18 | 84.1 | 9 |
| 17 | 44.51 | 20 | 73.1 | 16 | 13.25 | 17 | 83.2 | 10 |
| 27 | 44.31 | 17 | 71.5 | 21 | 13.08 | 13 | 82.2 | 12 |
| Okt. 7 | 44.14 | 13 | 69.4 | 24 | 12.95 | 8 | 81.0 | 13 |
| 17 | 44.01 | 8 | 67.0 | 28 | 12.87 | 3 | 79.7 | 14 |
| 27 | 43.93 | 3 | 64.2 | 30 | 12.84 | 3 | 78.3 | 13 |
| Nov. 6 | 43.90 | 3 | 61.2 | 33 | 12.87 | 9 | 77.0 | 12 |
| 16 | 43.93 | 10 | 57.9 | 38 | 12.96 | 18 | 75.8 | 10 |
| 26 | [17] 44.03 | 15 | 54.1 | 36 | [17] 13.14 | 23 | 74.8 | 7 |
| Dez. 6 | 44.18 | 21 | 50.5 | 34 | 13.37 | 28 | 74.1 | 4 |
| 16 | 44.39 | 27 | 47.1 | 34 | 13.65 | 33 | 73.7 | 1 |
| 26 | 44.66 | 31 | 43.7 | 31 | 13.98 | 38 | 73.6 | 1 |
| 36 | 44.97 | | 40.6 | | 14.36 | | 73.7 | |
| Mittl. Ort | 43.93 | | 69.6 | | 12.27 | | 65.7 | |
| | 573) | | | | 575) | | | |

| 1911 | γ Librae. 4ᵐ.1. AR. | | Dekl. − | | α Coron. bor. 2ᵐ.2. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|
| | 15ʰ 30ᵐ | | 14° 29′ | | 15ʰ 30ᵐ | | 27° 0′ | |
| Jan. 0 | 30.91 | 31 | 35.3 | 14 | 53.63 | 30 | 39.5 | 28 |
| 10 | 31.22 | 32 | 36.7 | 15 | 53.93 | 32 | 36.7 | 24 |
| 20 | 31.54 | 34 | 38.2 | 15 | 54.25 | 33 | 34.3 | 20 |
| 30 | 31.88 | 33 | 39.7 | 15 | 54.58 | 34 | 32.3 | 16 |
| Febr. 9 | 32.21 | 33 | 41.2 | 14 | 54.92 | 34 | 30.7 | 11 |
| 19 | 32.54 | 31 | 42.6 | 12 | 55.26 | 32 | 29.6 | 6 |
| März 1 | 32.85 | 30 | 43.8 | 11 | 55.58 | 30 | 29.0 | 1 |
| 11 | 33.15 | 27 | 44.9 | 9 | 55.88 | 28 | 28.9 | 5 |
| 21 | 33.42 | 25 | 45.8 | 8 | 56.16 | 24 | 29.4 | 9 |
| 31 | 33.67 | 22 | 46.6 | 5 | 56.40 | 22 | 30.3 | 13 |
| April 10 | 33.89 | 20 | 47.1 | 4 | 56.62 | 19 | 31.6 | 17 |
| 20 | 34.09 | 17 | 47.5 | 3 | 56.81 | 15 | 33.3 | 19 |
| 30 | 34.26 | 14 | 47.8 | 1 | 56.96 | 12 | 35.2 | 20 |
| Mai 10 | 34.40 | 11 | 47.9 | 1 | 57.08 | 8 | 37.2 | 22 |
| 20 | 34.51 | 9 | 48.0 | 1 | 57.16 | 5 | 39.4 | 22 |
| 30 | 34.60 | 5 | 47.9 | 1 | 57.21 | 2 | 41.6 | 21 |
| Juni 9 | 34.65 | 2 | 47.8 | 2 | 57.23 | 2 | 43.7 | 19 |
| 19 | 34.67 | 1 | 47.6 | 2 | 57.21 | 5 | 45.6 | 18 |
| 29 | 34.66 | 5 | 47.4 | 2 | 57.16 | 9 | 47.4 | 16 |
| Juli 9 | 34.61 | 7 | 47.2 | 3 | 57.07 | 11 | 49.0 | 12 |
| 19 | 34.54 | 10 | 46.9 | 2 | 56.96 | 13 | 50.2 | 10 |
| 29 | 34.44 | 12 | 46.7 | 3 | 56.83 | 16 | 51.2 | 6 |
| Aug. 8 | 34.32 | 13 | 46.4 | 4 | 56.67 | 17 | 51.8 | 3 |
| 18 | 34.19 | 15 | 46.0 | 3 | 56.50 | 18 | 52.1 | 1 |
| 28 | 34.04 | 14 | 45.7 | 3 | 56.32 | 18 | 52.0 | 5 |
| Sept. 7 | 33.90 | 14 | 45.4 | 3 | 56.14 | 17 | 51.5 | 8 |
| 17 | 33.76 | 12 | 45.1 | 2 | 55.97 | 15 | 50.7 | 12 |
| 27 | 33.64 | 10 | 44.9 | 2 | 55.82 | 13 | 49.5 | 16 |
| Okt. 7 | 33.54 | 6 | 44.7 | 1 | 55.69 | 10 | 47.9 | 19 |
| 17 | 33.48 | 2 | 44.6 | 1 | 55.59 | 6 | 46.0 | 22 |
| 27 | 33.46 | 3 | 44.7 | 2 | 55.53 | 1 | 43.8 | 25 |
| Nov. 6 | 33.49 | 8 | 44.9 | 5 | 55.52 | 5 | 41.3 | 27 |
| 16 | 33.57 | 14 | 45.4 | 7 | 55.57 | 11 | 38.6 | 32 |
| 26 | [17] 33.71 | 18 | 46.1 | 9 | [18] 55.68 | 15 | 35.4 | 31 |
| Dez. 6 | 33.89 | 23 | 47.0 | 10 | 55.83 | 21 | 32.3 | 31 |
| 16 | 34.12 | 27 | 48.0 | 13 | 56.04 | 25 | 29.2 | 30 |
| 26 | 34.39 | 30 | 49.3 | 13 | 56.29 | 29 | 26.2 | 28 |
| 36 | 34.69 | | 50.6 | | 56.58 | | 23.4 | |
| Mittl. Ort | 32.72 | | 35.8 | | 55.16 | | 49.2 | |
| | 577) | | | | 578) | | | |

| 1911 | α Serpentis. 2^m.5. AR. | | Dekl. + | | β Serpentis. 3^m.4. AR. | | Dekl. + | | ϰ Serpentis. 4^m.0. AR. | | Dekl. + | | μ Serpentis. 3^m.3. AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 15^h 39^m | | 6° 41′ | | 15^h 42^m | | 15° 41′ | | 15^h 44^m | | 18° 24′ | | 15^h 44^m | | 3° 9′ | |
| Jan. 0 | 51.33 | 29 | 73.0 | 22 | 3.15 | 29 | 51.8 | 25 | 42.37 | 29 | 49.0 | 26 | 56.68 | 30 | 33.5 | 18 |
| 10 | 51.62 | 31 | 70.8 | 21 | 3.44 | 31 | 49.3 | 23 | 42.66 | 30 | 46.4 | 23 | 56.98 | 30 | 35.3 | 18 |
| 20 | 51.93 | 32 | 68.7 | 18 | 3.75 | 32 | 47.0 | 20 | 42.96 | 32 | 44.1 | 20 | 57.28 | 32 | 37.1 | 17 |
| 30 | 52.25 | 32 | 66.9 | 16 | 4.07 | 32 | 45.0 | 16 | 43.28 | 33 | 42.1 | 17 | 57.60 | 32 | 38.8 | 15 |
| Febr. 9 | 52.57 | 31 | 65.3 | 13 | 4.39 | 32 | 43.4 | 13 | 43.61 | 31 | 40.4 | 13 | 57.92 | 32 | 40.3 | 13 |
| 19 | 52.88 | 30 | 64.0 | 10 | 4.71 | 30 | 42.1 | 8 | 43.92 | 31 | 39.1 | 8 | 58.24 | 30 | 41.6 | 11 |
| März 1 | 53.18 | 29 | 63.0 | 6 | 5.01 | 30 | 41.3 | 3 | 44.23 | 30 | 38.3 | 3 | 58.54 | 29 | 42.7 | 8 |
| 11 | 53.47 | 27 | 62.4 | 2 | 5.31 | 27 | 41.0 | 0 | 44.53 | 27 | 38.0 | 2 | 58.83 | 27 | 43.5 | 5 |
| 21 | 53.74 | 24 | 62.2 | 2 | 5.58 | 24 | 41.0 | 5 | 44.80 | 25 | 38.2 | 5 | 59.10 | 25 | 44.0 | 2 |
| 31 | 53.98 | 22 | 62.4 | 4 | 5.82 | 22 | 41.5 | 8 | 45.05 | 23 | 38.7 | 10 | 59.35 | 23 | 44.2 | 0 |
| April 10 | 54.20 | 19 | 62.8 | 7 | 6.04 | 20 | 42.3 | 12 | 45.28 | 19 | 39.7 | 12 | 59.58 | 20 | 44.2 | 2 |
| 20 | 54.39 | 16 | 63.5 | 10 | 6.24 | 16 | 43.5 | 13 | 45.47 | 17 | 40.9 | 16 | 59.78 | 17 | 44.0 | 4 |
| 30 | 54.55 | 14 | 64.5 | 11 | 6.40 | 13 | 44.8 | 16 | 45.64 | 13 | 42.5 | 17 | 59.95 | 15 | 43.6 | 6 |
| Mai 10 | 54.69 | 11 | 65.6 | 12 | 6.53 | 11 | 46.4 | 17 | 45.77 | 11 | 44.2 | 18 | 60.10 | 12 | 43.0 | 7 |
| 20 | 54.80 | 7 | 66.8 | 13 | 6.64 | 7 | 48.1 | 17 | 45.88 | 7 | 46.0 | 18 | 60.22 | 9 | 42.3 | 7 |
| 30 | 54.87 | 5 | 68.1 | 12 | 6.71 | 4 | 49.8 | 17 | 45.95 | 4 | 47.8 | 19 | 60.31 | 6 | 41.6 | 8 |
| Juni 9 | 54.92 | 2 | 69.3 | 12 | 6.75 | 0 | 51.5 | 16 | 45.99 | 0 | 49.7 | 17 | 60.37 | 2 | 40.8 | 7 |
| 19 | 54.94 | 2 | 70.5 | 12 | 6.75 | 2 | 53.1 | 15 | 45.99 | 3 | 51.4 | 16 | 60.39 | 0 | 40.1 | 8 |
| 29 | 54.92 | 4 | 71.7 | 10 | 6.73 | 5 | 54.6 | 13 | 45.96 | 5 | 53.0 | 14 | 60.39 | 4 | 39.3 | 7 |
| Juli 9 | 54.88 | 8 | 72.7 | 9 | 6.68 | 9 | 55.9 | 11 | 45.91 | 9 | 54.4 | 12 | 60.35 | 6 | 38.6 | 6 |
| 19 | 54.80 | 10 | 73.6 | 7 | 6.59 | 11 | 57.0 | 9 | 45.82 | 12 | 55.6 | 9 | 60.29 | 10 | 38.0 | 5 |
| 29 | 54.70 | 12 | 74.3 | 6 | 6.48 | 13 | 57.9 | 7 | 45.70 | 13 | 56.5 | 7 | 60.19 | 11 | 37.5 | 5 |
| Aug. 8 | 54.58 | 13 | 74.9 | 4 | 6.35 | 15 | 58.6 | 4 | 45.57 | 15 | 57.2 | 4 | 60.08 | 13 | 37.0 | 3 |
| 18 | 54.45 | 15 | 75.3 | 2 | 6.20 | 16 | 59.0 | 1 | 45.42 | 17 | 57.6 | 1 | 59.95 | 15 | 36.7 | 3 |
| 28 | 54.30 | 16 | 75.5 | 0 | 6.04 | 16 | 59.1 | 2 | 45.25 | 16 | 57.7 | 2 | 59.80 | 15 | 36.4 | 1 |
| Sept. 7 | 54.14 | 14 | 75.5 | 3 | 5.88 | 16 | 58.9 | 4 | 45.09 | 16 | 57.5 | 5 | 59.65 | 14 | 36.3 | 0 |
| 17 | 54.00 | 13 | 75.2 | 5 | 5.72 | 14 | 58.5 | 8 | 44.93 | 15 | 57.0 | 8 | 59.51 | 13 | 36.3 | 1 |
| 27 | 53.87 | 11 | 74.7 | 7 | 5.58 | 12 | 57.7 | 11 | 44.78 | 13 | 56.2 | 12 | 59.38 | 11 | 36.4 | 3 |
| Okt. 7 | 53.76 | 8 | 74.0 | 9 | 5.46 | 9 | 56.6 | 13 | 44.65 | 9 | 55.0 | 15 | 59.27 | 7 | 36.7 | 5 |
| 17 | 53.68 | 4 | 73.1 | 13 | 5.37 | 4 | 55.3 | 16 | 44.56 | 6 | 53.5 | 17 | 59.20 | 4 | 37.2 | 7 |
| 27 | 53.64 | 1 | 71.8 | 14 | 5.33 | 1 | 53.7 | 20 | 44.50 | 1 | 51.8 | 20 | 59.16 | 1 | 37.9 | 9 |
| Nov. 6 | 53.65 | 5 | 70.4 | 17 | 5.32 | 5 | 51.7 | 22 | 44.49 | 4 | 49.8 | 23 | 59.17 | 6 | 38.8 | 11 |
| 16 | 53.70 | 12 | 68.7 | 20 | 5.37 | 10 | 49.5 | 25 | 44.53 | 10 | 47.5 | 28 | 59.23 | 12 | 39.9 | 14 |
| 26 | [20] 53.82 | 16 | 66.7 | 21 | [20] 5.47 | 15 | 47.0 | 26 | [21] 44.63 | 15 | 44.7 | 27 | [21] 59.35 | 16 | 41.3 | 15 |
| Dez. 6 | 53.98 | 20 | 64.6 | 22 | 5.62 | 20 | 44.4 | 26 | 44.78 | 19 | 42.0 | 27 | 59.51 | 20 | 42.8 | 16 |
| 16 | 54.18 | 25 | 62.4 | 22 | 5.82 | 23 | 41.8 | 26 | 44.97 | 23 | 39.3 | 27 | 59.71 | 24 | 44.4 | 18 |
| 26 | 54.43 | 27 | 60.2 | 22 | 6.05 | 27 | 39.2 | 25 | 45.20 | 27 | 36.6 | 26 | 59.95 | 28 | 46.2 | 18 |
| 36 | 54.70 | | 58.0 | | 6.32 | | 36.7 | | 45.47 | | 34.0 | | 60.23 | | 48.0 | |
| Mittl. Ort | 52.99 | | 78.1 | | 4.77 | | 59.0 | | 43.99 | | 56.9 | | 58.43 | | 30.6 | |
| | 582) | | | | 583) | | | | 584) | | | | 585) | | | |

| 1911 | ε Serpentis. $3^m.5$. | | | | ζ Ursae min. $4^m.3$. | | | | β Triang. austr. $2^m.9$. | | | | ε Coron. bor. $4^m.0$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. − | | AR. | | Dekl. + | |
| | $15^h 46^m$ | | 4° 44′ | | $15^h 47^m$ | | 78° 3′ | | $15^h 47^m$ | | 63° 9′ | | $15^h 53^m$ | | 27° 7′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | | s | | ″ | |
| Jan. 0 | 21.01 | 28 | 37.1 | 21 | 9.47 | 76 | 51.4 | 30 | 13.57 | 56 | 15.2 | 7 | 52.48 | 29 | 56.3 | 28 |
| 10 | 21.29 | 31 | 35.0 | 20 | 10.23 | 90 | 48.4 | 25 | 14.13 | 61 | 14.5 | 3 | 52.77 | 31 | 53.5 | 26 |
| 20 | 21.60 | 31 | 33.0 | 18 | 11.13 | 101 | 45.9 | 19 | 14.74 | 63 | 14.2 | 1 | 53.08 | 32 | 50.9 | 21 |
| 30 | 21.91 | 32 | 31.2 | 16 | 12.14 | 108 | 44.0 | 13 | 15.37 | 65 | 14.3 | 5 | 53.40 | 34 | 48.8 | 17 |
| Febr. 9 | 22.23 | 32 | 29.6 | 13 | 13.22 | 111 | 42.7 | 6 | 16.02 | 64 | 14.8 | 9 | 53.74 | 33 | 47.1 | 13 |
| 19 | 22.55 | 30 | 28.3 | 10 | 14.33 | 110 | 42.1 | 1 | 16.66 | 62 | 15.7 | 13 | 54.07 | 32 | 45.8 | 7 |
| März 1 | 22.85 | 29 | 27.3 | 6 | 15.43 | 105 | 42.2 | 7 | 17.28 | 60 | 17.0 | 16 | 54.39 | 31 | 45.1 | 1 |
| 11 | 23.14 | 27 | 26.7 | 3 | 16.48 | 97 | 42.9 | 14 | 17.88 | 56 | 18.6 | 19 | 54.70 | 29 | 45.0 | 3 |
| 21 | 23.41 | 25 | 26.4 | 1 | 17.45 | 85 | 44.3 | 19 | 18.44 | 52 | 20.5 | 21 | 54.99 | 26 | 45.3 | 9 |
| 31 | 23.66 | 22 | 26.5 | 4 | 18.30 | 70 | 46.2 | 24 | 18.96 | 47 | 22.6 | 24 | 55.25 | 24 | 46.2 | 12 |
| April 10 | 23.88 | 20 | 26.9 | 6 | 19.00 | 55 | 48.6 | 27 | 19.43 | 41 | 25.0 | 25 | 55.49 | 21 | 47.4 | 16 |
| 20 | 24.08 | 17 | 27.5 | 8 | 19.55 | 38 | 51.3 | 30 | 19.84 | 35 | 27.5 | 26 | 55.70 | 17 | 49.0 | 19 |
| 30 | 24.25 | 14 | 28.3 | 10 | 19.93 | 19 | 54.3 | 31 | 20.19 | 29 | 30.1 | 26 | 55.87 | 14 | 50.9 | 21 |
| Mai 10 | 24.39 | 12 | 29.3 | 11 | 20.12 | 0 | 57.4 | 31 | 20.48 | 22 | 32.7 | 26 | 56.01 | 11 | 53.0 | 22 |
| 20 | 24.51 | 8 | 30.4 | 12 | 20.12 | 18 | 60.5 | 31 | 20.70 | 15 | 35.3 | 26 | 56.12 | 7 | 55.2 | 23 |
| 30 | 24.59 | 6 | 31.6 | 12 | 19.94 | 34 | 63.6 | 29 | 20.85 | 7 | 37.9 | 25 | 56.19 | 4 | 57.5 | 22 |
| Juni 9 | 24.65 | 2 | 32.8 | 12 | 19.60 | 51 | 66.5 | 26 | 20.92 | 0 | 40.4 | 24 | 56.23 | 0 | 59.7 | 21 |
| 19 | 24.67 | 1 | 34.0 | 11 | 19.09 | 66 | 69.1 | 23 | 20.92 | 7 | 42.8 | 21 | 56.23 | 4 | 61.8 | 19 |
| 29 | 24.66 | 4 | 35.1 | 9 | 18.43 | 79 | 71.4 | 19 | 20.85 | 15 | 44.9 | 19 | 56.19 | 7 | 63.7 | 17 |
| Juli 9 | 24.62 | 7 | 36.0 | 9 | 17.64 | 90 | 73.3 | 14 | 20.70 | 21 | 46.8 | 15 | 56.12 | 10 | 65.4 | 14 |
| 19 | 24.55 | 10 | 36.9 | 7 | 16.74 | 98 | 74.7 | 10 | 20.49 | 27 | 48.3 | 12 | 56.02 | 13 | 66.8 | 12 |
| 29 | 24.45 | 12 | 37.6 | 6 | 15.76 | 105 | 75.7 | 5 | 20.22 | 32 | 49.5 | 8 | 55.89 | 15 | 68.0 | 8 |
| Aug. 8 | 24.33 | 13 | 38.2 | 4 | 14.71 | 109 | 76.2 | 1 | 19.90 | 35 | 50.3 | 3 | 55.74 | 18 | 68.8 | 4 |
| 18 | 24.20 | 15 | 38.6 | 3 | 13.62 | 109 | 76.1 | 6 | 19.55 | 38 | 50.6 | 1 | 55.56 | 18 | 69.2 | 1 |
| 28 | 24.05 | 15 | 38.9 | 0 | 12.53 | 109 | 75.5 | 11 | 19.17 | 37 | 50.5 | 5 | 55.38 | 19 | 69.3 | 2 |
| Sept. 7 | 23.90 | 15 | 38.9 | 2 | 11.44 | 106 | 74.4 | 15 | 18.80 | 36 | 50.0 | 10 | 55.19 | 18 | 69.1 | 7 |
| 17 | 23.75 | 13 | 38.7 | 4 | 10.38 | 99 | 72.9 | 21 | 18.44 | 33 | 49.0 | 14 | 55.01 | 17 | 68.4 | 10 |
| 27 | 23.62 | 11 | 38.3 | 6 | 9.39 | 91 | 70.8 | 25 | 18.11 | 28 | 47.6 | 17 | 54.84 | 15 | 67.4 | 14 |
| Okt. 7 | 23.51 | 8 | 37.7 | 9 | 8.48 | 79 | 68.3 | 29 | 17.83 | 21 | 45.9 | 20 | 54.69 | 12 | 66.0 | 18 |
| 17 | 23.43 | 4 | 36.8 | 11 | 7.69 | 65 | 65.4 | 33 | 17.62 | 12 | 43.9 | 21 | 54.57 | 8 | 64.2 | 21 |
| 27 | 23.39 | 0 | 35.7 | 13 | 7.04 | 49 | 62.1 | 35 | 17.50 | 2 | 41.8 | 23 | 54.49 | 3 | 62.1 | 24 |
| Nov. 6 | 23.39 | 5 | 34.4 | 16 | 6.55 | 31 | 58.6 | 37 | 17.48 | 7 | 39.5 | 23 | 54.46 | 2 | 59.7 | 27 |
| 16 | 23.44 | 11 | 32.8 | 19 | 6.24 | 12 | 54.9 | 42 | 17.55 | 20 | 37.2 | 24 | 54.48 | 8 | 57.0 | 31 |
| 26 | 23.55 | 15 | 30.9 | 19 | 6.12 | 10 | 50.7 | 38 | 17.75 | 30 | 34.8 | 20 | 54.56 | 13 | 53.9 | 30 |
| Dez. 6 | 23.70 | 20 | 29.0 | 21 | 6.22 | 31 | 46.9 | 37 | 18.05 | 38 | 32.8 | 17 | 54.69 | 18 | 50.9 | 31 |
| 16 | 23.90 | 24 | 26.9 | 21 | 6.53 | 50 | 43.2 | 36 | 18.43 | 47 | 31.1 | 14 | 54.87 | 22 | 47.8 | 30 |
| 26 | 24.14 | 27 | 24.8 | 22 | 7.03 | 68 | 39.6 | 32 | 18.90 | 54 | 29.7 | 10 | 55.09 | 27 | 44.8 | 29 |
| 36 | 24.41 | | 22.6 | | 7.71 | | 36.4 | | 19.44 | | 28.7 | | 55.36 | | 41.9 | |
| Mittl. Ort | 22.70 | | 41.9 | | 12.81 | | 67.4 | | 17.47 | | 24.6 | | 54.13 | | 66.1 | |
| | 588) | | | | 590) | | | | 589) | | | | 593). | | | |

| 1911 | δ Scorpii. $2^m.3$. AR. | | Dekl. − | | ϑ Draconis. $3^m.8$. AR. | | Dekl. + | | β Scorpii. $2^m.6$. AR. | | Dekl. − | | δ Ophiuchi. $2^m.8$. AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $15^h\,55^m$ | | 22° 22′ | | $16^h\,0^m$ | | 58° 47′ | | $16^h\,0^m$ | | 19° 33′ | | $16^h\,9^m$ | | 3° 27′ | |
| Jan. 0 | $2^s.06$ | 31 | 7″.8 | 10 | $11^s.19$ | 36 | 55″.3 | 32 | $13^s.55$ | 31 | 45″.0 | 11 | $38^s.96$ | 28 | 60″.8 | 17 |
| 10 | 2.37 | 33 | 8.8 | 11 | 11.55 | 42 | 52.1 | 27 | 13.86 | 32 | 46.1 | 11 | 39.24 | 29 | 62.5 | 17 |
| 20 | 2.70 | 34 | 9.9 | 11 | 11.97 | 46 | 49.4 | 23 | 14.18 | 33 | 47.2 | 12 | 39.53 | 31 | 64.2 | 16 |
| 30 | 3.04 | 35 | 11.0 | 13 | 12.43 | 48 | 47.1 | 17 | 14.51 | 34 | 48.4 | 12 | 39.84 | 32 | 65.8 | 15 |
| Febr. 9 | 3.39 | 34 | 12.3 | 12 | 12.91 | 49 | 45.4 | 10 | 14.85 | 34 | 49.6 | 12 | 40.16 | 31 | 67.3 | 12 |
| 19 | 3.73 | 33 | 13.5 | 11 | 13.40 | 49 | 44.4 | 3 | 15.19 | 33 | 50.8 | 11 | 40.47 | 32 | 68.5 | 11 |
| März 1 | 4.06 | 32 | 14.6 | 11 | 13.89 | 47 | 44.1 | 3 | 15.52 | 31 | 51.9 | 11 | 40.79 | 29 | 69.6 | 7 |
| 11 | 4.38 | 30 | 15.7 | 10 | 14.36 | 44 | 44.4 | 10 | 15.83 | 30 | 53.0 | 9 | 41.08 | 29 | 70.3 | 5 |
| 21 | 4.68 | 28 | 16.7 | 9 | 14.80 | 40 | 45.4 | 16 | 16.13 | 28 | 53.9 | 7 | 41.37 | 26 | 70.8 | 2 |
| 31 | 4.96 | 25 | 17.6 | 8 | 15.20 | 34 | 47.0 | 20 | 16.41 | 25 | 54.6 | 7 | 41.63 | 24 | 71.0 | 1 |
| April 10 | 5.21 | 23 | 18.4 | 7 | 15.54 | 29 | 49.0 | 25 | 16.66 | 23 | 55.3 | 5 | 41.87 | 22 | 70.9 | 2 |
| 20 | 5.44 | 20 | 19.1 | 6 | 15.83 | 23 | 51.5 | 28 | 16.89 | 20 | 55.8 | 5 | 42.09 | 20 | 70.7 | 5 |
| 30 | 5.64 | 18 | 19.7 | 5 | 16.06 | 15 | 54.3 | 30 | 17.09 | 18 | 56.3 | 3 | 42.29 | 17 | 70.2 | 6 |
| Mai 10 | 5.82 | 14 | 20.2 | 5 | 16.21 | 10 | 57.3 | 31 | 17.27 | 14 | 56.6 | 3 | 42.46 | 14 | 69.6 | 7 |
| 20 | 5.96 | 12 | 20.7 | 4 | 16.31 | 2 | 60.4 | 32 | 17.41 | 12 | 56.9 | 1 | 42.60 | 11 | 68.9 | 8 |
| 30 | 6.08 | 8 | 21.1 | 3 | 16.33 | 5 | 63.6 | 30 | 17.53 | 8 | 57.0 | 1 | 42.71 | 8 | 68.1 | 8 |
| Juni 9 | 6.16 | 4 | 21.4 | 2 | 16.28 | 10 | 66.6 | 28 | 17.61 | 5 | 57.1 | 1 | 42.79 | 5 | 67.3 | 8 |
| 19 | 6.20 | 1 | 21.6 | 2 | 16.18 | 17 | 69.4 | 25 | 17.66 | 1 | 57.2 | 1 | 42.84 | 2 | 66.5 | 8 |
| 29 | 6.21 | 3 | 21.8 | 1 | 16.01 | 22 | 71.9 | 22 | 17.67 | 2 | 57.3 | 0 | 42.86 | 2 | 65.7 | 7 |
| Juli 9 | 6.18 | 6 | 21.9 | 0 | 15.79 | 28 | 74.1 | 17 | 17.65 | 6 | 57.3 | 0 | 42.84 | 5 | 65.0 | 7 |
| 19 | 6.12 | 9 | 21.9 | 0 | 15.51 | 32 | 75.8 | 14 | 17.59 | 9 | 57.3 | 1 | 42.79 | 9 | 64.3 | 5 |
| 29 | 6.03 | 12 | 21.9 | 0 | 15.19 | 35 | 77.2 | 9 | 17.50 | 11 | 57.2 | 1 | 42.70 | 10 | 63.8 | 5 |
| Aug. 8 | 5.91 | 14 | 21.9 | 2 | 14.84 | 38 | 78.1 | 3 | 17.39 | 14 | 57.1 | 2 | 42.60 | 13 | 63.3 | 4 |
| 18 | 5.77 | 16 | 21.7 | 3 | 14.46 | 39 | 78.4 | 1 | 17.25 | 15 | 56.9 | 3 | 42.47 | 15 | 62.9 | 2 |
| 28 | 5.61 | 15 | 21.4 | 3 | 14.07 | 40 | 78.3 | 7 | 17.10 | 15 | 56.6 | 3 | 42.32 | 15 | 62.7 | 2 |
| Sept. 7 | 5.46 | 16 | 21.1 | 4 | 13.67 | 39 | 77.6 | 11 | 16.95 | 16 | 56.3 | 3 | 42.17 | 15 | 62.5 | 0 |
| 17 | 5.30 | 14 | 20.7 | 4 | 13.28 | 36 | 76.5 | 17 | 16.79 | 14 | 56.0 | 3 | 42.02 | 14 | 62.5 | 1 |
| 27 | 5.16 | 12 | 20.3 | 5 | 12.92 | 33 | 74.8 | 21 | 16.65 | 12 | 55.7 | 3 | 41.88 | 12 | 62.6 | 3 |
| Okt. 7 | 5.04 | 9 | 19.8 | 4 | 12.59 | 29 | 72.7 | 26 | 16.53 | 8 | 55.4 | 3 | 41.76 | 10 | 62.9 | 4 |
| 17 | 4.95 | 4 | 19.4 | 3 | 12.30 | 23 | 70.1 | 29 | 16.45 | 5 | 55.1 | 2 | 41.66 | 6 | 63.3 | 7 |
| 27 | 4.91 | 1 | 19.1 | 2 | 12.07 | 16 | 67.2 | 33 | 16.40 | 0 | 54.9 | 1 | 41.60 | 1 | 64.0 | 8 |
| Nov. 6 | 4.92 | 5 | 18.9 | 1 | 11.91 | 9 | 63.9 | 36 | 16.40 | 5 | 54.8 | 1 | 41.59 | 3 | 64.8 | 10 |
| 16 | 4.97 | 13 | 18.8 | 1 | 11.82 | 1 | 60.3 | 41 | 16.45 | 12 | 54.9 | 2 | 41.62 | 8 | 65.8 | 12 |
| 26 | 5.10 | 17 | 18.9 | 3 | 11.83 | 9 | 56.2 | 38 | 16.57 | 16 | 55.1 | 5 | 41.70 | 15 | 67.0 | 15 |
| Dez. 6 | 5.27 | 21 | 19.2 | 4 | 11.92 | 18 | 52.4 | 38 | 16.73 | 20 | 55.6 | 6 | 41.85 | 18 | 68.5 | 16 |
| 16 | 5.48 | 26 | 19.6 | 7 | 12.10 | 25 | 48.6 | 36 | 16.93 | 25 | 56.2 | 8 | 42.03 | 23 | 70.1 | 17 |
| 26 | 5.74 | 30 | 20.3 | 9 | 12.35 | 33 | 45.0 | 34 | 17.18 | 30 | 57.0 | 10 | 42.26 | 26 | 71.8 | 17 |
| 36 | 6.04 | | 21.2 | | 12.68 | | 41.6 | | 17.48 | | 58.0 | | 42.52 | | 73.5 | |
| Mittl. Ort | 4.09 | | 9.0 | | 13.19 | | 69.7 | | 15.56 | | 45.3 | | 40.81 | | 57.1 | |
| | 594) | | | | 598) | | | | 597) | | | | 603) | | | |

| 1911 | γ² Normae. 4ᵐ.2. AR. | | Dekl. − | | 19 Ursae min. 5ᵐ.8. AR. | | Dekl. + | | ε Ophiuchi. 3ᵐ.2. AR. | | Dekl. − | | τ Herculis. 3ᵐ.6. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16ʰ 13ᵐ | | 49° 56′ | | 16ʰ 13ᵐ | | 76° 5′ | | 16ʰ 13ᵐ | | 4° 28′ | | 16ʰ 17ᵐ | | 46° 31′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | | s | | ″ | |
| Jan. 0 | 7.49 | 39 | 11.5 | 4 | 17.33 | 59 | 52.3 | 32 | 34.77 | 27 | 38.2 | 17 | 2.02 | 29 | 16.9 | 32 |
| 10 | 7.88 | 44 | 11.1 | 2 | 17.92 | 72 | 49.1 | 28 | 35.04 | 29 | 39.9 | 16 | 2.31 | 33 | 13.7 | 29 |
| 20 | 8.32 | 46 | 10.9 | 1 | 18.64 | 82 | 46.3 | 23 | 35.33 | 31 | 41.5 | 16 | 2.64 | 36 | 10.8 | 24 |
| 30 | 8.78 | 47 | 11.0 | 4 | 19.46 | 91 | 44.0 | 16 | 35.64 | 32 | 43.1 | 14 | 3.00 | 39 | 8.4 | 19 |
| Febr. 9 | 9.25 | 47 | 11.4 | 8 | 20.37 | 95 | 42.4 | 10 | 35.96 | 32 | 44.5 | 12 | 3.39 | 39 | 6.5 | 13 |
| 19 | 9.72 | 46 | 12.2 | 10 | 21.32 | 96 | 41.4 | 3 | 36.28 | 31 | 45.7 | 10 | 3.78 | 39 | 5.2 | 7 |
| März 1 | 10.18 | 45 | 13.2 | 12 | 22.28 | 94 | 41.1 | 4 | 36.59 | 30 | 46.7 | 8 | 4.17 | 38 | 4.5 | 0 |
| 11 | 10.63 | 43 | 14.4 | 13 | 23.22 | 88 | 41.5 | 10 | 36.89 | 28 | 47.5 | 5 | 4.55 | 36 | 4.5 | 6 |
| 21 | 11.06 | 41 | 15.7 | 16 | 24.10 | 80 | 42.5 | 17 | 37.17 | 27 | 48.0 | 2 | 4.91 | 33 | 5.1 | 12 |
| 31 | 11.47 | 37 | 17.3 | 16 | 24.90 | 68 | 44.2 | 21 | 37.44 | 25 | 48.2 | 0 | 5.24 | 30 | 6.3 | 17 |
| April 10 | 11.84 | 34 | 18.9 | 18 | 25.58 | 57 | 46.3 | 25 | 37.69 | 22 | 48.2 | 3 | 5.54 | 26 | 8.0 | 22 |
| 20 | 12.18 | 31 | 20.7 | 18 | 26.15 | 42 | 48.8 | 29 | 37.91 | 20 | 47.9 | 4 | 5.80 | 21 | 10.2 | 24 |
| 30 | 12.49 | 26 | 22.5 | 19 | 26.57 | 27 | 51.7 | 31 | 38.11 | 17 | 47.5 | 6 | 6.01 | 17 | 12.6 | 28 |
| Mai 10 | 12.75 | 21 | 24.4 | 19 | 26.84 | 11 | 54.8 | 32 | 38.28 | 15 | 46.9 | 7 | 6.18 | 12 | 15.4 | 29 |
| 20 | 12.96 | 17 | 26.3 | 19 | 26.95 | 5 | 58.0 | 31 | 38.43 | 12 | 46.2 | 7 | 6.30 | 8 | 18.3 | 29 |
| 30 | 13.13 | 11 | 28.2 | 19 | 26.90 | 20 | 61.1 | 31 | 38.55 | 9 | 45.5 | 7 | 6.38 | 2 | 21.2 | 29 |
| Juni 9 | 13.24 | 7 | 30.1 | 17 | 26.70 | 34 | 64.2 | 28 | 38.64 | 5 | 44.8 | 8 | 6.40 | 2 | 24.1 | 27 |
| 19 | 13.31 | 1 | 31.8 | 16 | 26.36 | 48 | 67.0 | 26 | 38.69 | 2 | 44.0 | 8 | 6.38 | 7 | 26.8 | 26 |
| 29 | 13.32 | 4 | 33.4 | 14 | 25.88 | 60 | 69.6 | 22 | 38.71 | 2 | 43.2 | 7 | 6.31 | 12 | 29.4 | 22 |
| Juli 9 | 13.28 | 10 | 34.8 | 13 | 25.28 | 71 | 71.8 | 18 | 38.69 | 5 | 42.5 | 6 | 6.19 | 16 | 31.6 | 19 |
| 19 | 13.18 | 14 | 36.1 | 9 | 24.57 | 80 | 73.6 | 14 | 38.64 | 8 | 41.9 | 5 | 6.03 | 20 | 33.5 | 16 |
| 29 | 13.04 | 19 | 37.0 | 7 | 23.77 | 87 | 75.0 | 9 | 38.56 | 10 | 41.4 | 5 | 5.83 | 23 | 35.1 | 11 |
| Aug. 8 | 12.85 | 22 | 37.7 | 4 | 22.90 | 92 | 75.9 | 4 | 38.46 | 13 | 40.9 | 4 | 5.60 | 25 | 36.2 | 6 |
| 18 | 12.63 | 24 | 38.1 | 0 | 21.98 | 95 | 76.3 | 2 | 38.33 | 15 | 40.5 | 3 | 5.35 | 28 | 36.8 | 2 |
| 28 | 12.39 | 25 | 38.1 | 3 | 21.03 | 96 | 76.1 | 6 | 38.18 | 15 | 40.2 | 1 | 5.07 | 28 | 37.0 | 3 |
| Sept. 7 | 12.14 | 25 | 37.8 | 6 | 20.07 | 95 | 75.5 | 12 | 38.03 | 15 | 40.1 | 0 | 4.79 | 28 | 36.7 | 8 |
| 17 | 11.89 | 23 | 37.2 | 9 | 19.12 | 91 | 74.3 | 17 | 37.88 | 15 | 40.1 | 0 | 4.51 | 27 | 35.9 | 12 |
| 27 | 11.66 | 20 | 36.3 | 12 | 18.21 | 84 | 72.6 | 21 | 37.73 | 12 | 40.1 | 3 | 4.24 | 24 | 34.7 | 17 |
| Okt. 7 | 11.46 | 16 | 35.1 | 14 | 17.37 | 75 | 70.5 | 26 | 37.61 | 9 | 40.4 | 4 | 4.00 | 21 | 33.0 | 22 |
| 17 | 11.30 | 10 | 33.7 | 16 | 16.62 | 65 | 67.9 | 30 | 37.52 | 6 | 40.8 | 5 | 3.79 | 16 | 30.8 | 25 |
| 27 | 11.20 | 4 | 32.1 | 16 | 15.97 | 51 | 64.9 | 33 | 37.46 | 2 | 41.3 | 8 | 3.63 | 12 | 28.3 | 29 |
| Nov. 6 | 11.16 | 4 | 30.5 | 17 | 15.46 | 36 | 61.6 | 35 | 37.44 | 3 | 42.1 | 9 | 3.51 | 5 | 25.4 | 32 |
| 16 | 11.20 | 11 | 28.8 | 16 | 15.10 | 20 | 58.1 | 37 | 37.47 | 8 | 43.0 | 12 | 3.46 | 1 | 22.2 | 35 |
| 26 | 11.31 | 21 | 27.2 | 15 | 14.90 | 2 | 54.4 | 42 | 37.55 | 14 | 44.2 | 14 | 3.47 | 8 | 18.7 | 39 |
| Dez. 6 | [28] 11.52 | 26 | 25.7 | 13 | [28] 14.88 | 17 | 50.2 | 38 | [28] 37.69 | 18 | 45.6 | 15 | [29] 3.55 | 15 | 14.8 | 36 |
| 16 | 11.78 | 33 | 24.4 | 10 | 15.05 | 34 | 46.4 | 37 | 37.87 | 22 | 47.1 | 16 | 3.70 | 21 | 11.2 | 36 |
| 26 | 12.11 | 38 | 23.4 | 6 | 15.39 | 53 | 42.7 | 33 | 38.09 | 26 | 48.7 | 17 | 3.91 | 26 | 7.6 | 33 |
| 36 | 12.49 | | 22.8 | | 15.92 | | 39.4 | | 38.35 | | 50.4 | | 4.17 | | 4.3 | |
| Mittl. Ort | 10.47 | | 16.7 | | 20.82 | | 67.3 | | 36.64 | | 34.6 | | 3.89 | | 29.5 | |
| | 604) | | | | 606) | | | | 605) | | | | 608) | | | |

| 1911 | γ Herculis. 3m.5. AR. | | Dekl. + | | γ Apodis. 3m.9. AR. | | Dekl. − | | η Draconis. 2m.7. AR. | | Dekl. + | | α Scorpii. 1m.2. AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16h 17m | | 19° 21′ | | 16h 19m | | 78° 41′ | | 16h 22m | | 61° 42′ | | 16h 23m | | 26° 14′ | |
| Jan. 0 | 57.84 | 26 | 33.1 | 26 | 37.34 | 107 | 48.2 | 18 | 44.68 | 34 | 41.9 | 34 | 54.66 | 30 | 6.7 | 6 |
| 10 | 58.10 | 28 | 30.5 | 24 | 38.41 | 121 | 46.4 | 13 | 45.02 | 41 | 38.5 | 30 | 54.96 | 32 | 7.3 | 7 |
| 20 | 58.38 | 30 | 28.1 | 21 | 39.62 | 130 | 45.1 | 8 | 45.43 | 47 | 35.5 | 24 | 55.28 | 34 | 8.0 | 8 |
| 30 | 58.68 | 32 | 26.0 | 18 | 40.92 | 136 | 44.3 | 3 | 45.90 | 50 | 33.1 | 19 | 55.62 | 35 | 8.8 | 9 |
| Febr. 9 | 59.00 | 32 | 24.2 | 14 | 42.28 | 139 | 44.0 | 1 | 46.40 | 52 | 31.2 | 13 | 55.97 | 35 | 9.7 | 10 |
| 19 | 59.32 | 31 | 22.8 | 8 | 43.67 | 139 | 44.1 | 7 | 46.92 | 53 | 29.9 | 6 | 56.32 | 35 | 10.7 | 9 |
| März 1 | 59.63 | 31 | 22.0 | 4 | 45.06 | 136 | 44.8 | 11 | 47.45 | 51 | 29.3 | 2 | 56.67 | 34 | 11.6 | 9 |
| 11 | 59.94 | 29 | 21.6 | 0 | 46.42 | 130 | 45.9 | 15 | 47.96 | 49 | 29.5 | 7 | 57.01 | 32 | 12.5 | 9 |
| 21 | 60.23 | 27 | 21.6 | 5 | 47.72 | 123 | 47.4 | 19 | 48.45 | 45 | 30.2 | 14 | 57.33 | 31 | 13.4 | 8 |
| 31 | 60.50 | 25 | 22.1 | 10 | 48.95 | 113 | 49.3 | 22 | 48.90 | 40 | 31.6 | 19 | 57.64 | 28 | 14.2 | 8 |
| April 10 | 60.75 | 22 | 23.1 | 12 | 50.08 | 101 | 51.5 | 25 | 49.30 | 34 | 33.5 | 24 | 57.92 | 27 | 15.0 | 7 |
| 20 | 60.97 | 19 | 24.3 | 16 | 51.09 | 87 | 54.0 | 28 | 49.64 | 28 | 35.9 | 27 | 58.19 | 23 | 15.7 | 7 |
| 30 | 61.16 | 17 | 25.9 | 18 | 51.96 | 72 | 56.8 | 29 | 49.92 | 20 | 38.6 | 31 | 58.42 | 21 | 16.4 | 6 |
| Mai 10 | 61.33 | 14 | 27.7 | 19 | 52.68 | 56 | 59.7 | 31 | 50.12 | 13 | 41.7 | 31 | 58.63 | 18 | 17.0 | 5 |
| 20 | 61.47 | 10 | 29.6 | 20 | 53.24 | 39 | 62.8 | 30 | 50.25 | 6 | 44.8 | 32 | 58.81 | 15 | 17.5 | 5 |
| 30 | 61.57 | 7 | 31.6 | 20 | 53.63 | 22 | 65.8 | 31 | 50.31 | 2 | 48.0 | 31 | 58.96 | 11 | 18.0 | 5 |
| Juni 9 | 61.64 | 3 | 33.6 | 19 | 53.85 | 3 | 68.9 | 30 | 50.29 | 9 | 51.1 | 30 | 59.07 | 7 | 18.5 | 4 |
| 19 | 61.67 | 0 | 35.5 | 18 | 53.88 | 16 | 71.9 | 28 | 50.20 | 17 | 54.1 | 27 | 59.14 | 4 | 18.9 | 4 |
| 29 | 61.67 | 4 | 37.3 | 16 | 53.72 | 33 | 74.7 | 26 | 50.03 | 23 | 56.8 | 24 | 59.18 | 1 | 19.3 | 3 |
| Juli 9 | 61.63 | 7 | 38.9 | 14 | 53.39 | 50 | 77.3 | 23 | 49.80 | 28 | 59.2 | 20 | 59.17 | 4 | 19.6 | 3 |
| 19 | 61.56 | 11 | 40.3 | 12 | 52.89 | 65 | 79.6 | 19 | 49.52 | 34 | 61.2 | 16 | 59.13 | 8 | 19.9 | 2 |
| 29 | 61.45 | 13 | 41.5 | 9 | 52.24 | 77 | 81.5 | 15 | 49.18 | 39 | 62.8 | 11 | 59.05 | 11 | 20.1 | 1 |
| Aug. 8 | 61.32 | 15 | 42.4 | 7 | 51.47 | 87 | 83.0 | 10 | 48.79 | 41 | 63.9 | 7 | 58.94 | 14 | 20.2 | 0 |
| 18 | 61.17 | 17 | 43.1 | 3 | 50.60 | 94 | 84.0 | 4 | 48.38 | 44 | 64.6 | 2 | 58.80 | 16 | 20.2 | 1 |
| 28 | 61.00 | 17 | 43.4 | 0 | 49.66 | 97 | 84.4 | 0 | 47.94 | 45 | 64.8 | 4 | 58.64 | 17 | 20.1 | 3 |
| Sept. 7 | 60.83 | 18 | 43.4 | 4 | 48.69 | 95 | 84.4 | 6 | 47.49 | 45 | 64.4 | 9 | 58.47 | 17 | 19.8 | 3 |
| 17 | 60.65 | 16 | 43.0 | 6 | 47.74 | 90 | 83.8 | 12 | 47.04 | 43 | 63.5 | 14 | 58.30 | 16 | 19.5 | 4 |
| 27 | 60.49 | 15 | 42.4 | 10 | 46.84 | 81 | 82.6 | 16 | 46.61 | 41 | 62.1 | 19 | 58.14 | 14 | 19.1 | 4 |
| Okt. 7 | 60.34 | 12 | 41.4 | 14 | 46.03 | 67 | 81.0 | 21 | 46.20 | 35 | 60.2 | 23 | 58.00 | 11 | 18.7 | 5 |
| 17 | 60.22 | 9 | 40.0 | 16 | 45.36 | 49 | 78.9 | 24 | 45.85 | 30 | 57.9 | 28 | 57.89 | 7 | 18.2 | 5 |
| 27 | 60.13 | 4 | 38.4 | 19 | 44.87 | 30 | 76.5 | 27 | 45.55 | 23 | 55.1 | 32 | 57.82 | 2 | 17.7 | 5 |
| Nov. 6 | 60.09 | 0 | 36.5 | 22 | 44.57 | 8 | 73.8 | 28 | 45.32 | 15 | 51.9 | 34 | 57.80 | 3 | 17.2 | 3 |
| 16 | 60.09 | 5 | 34.3 | 25 | 44.49 | 15 | 71.0 | 28 | 45.17 | 6 | 48.5 | 36 | 57.83 | 8 | 16.9 | 2 |
| 26 | 60.14 | 12 | 31.8 | 28 | 44.64 | 43 | 68.2 | 31 | 45.11 | 4 | 44.9 | 42 | 57.91 | 15 | 16.7 | 1 |
| Dez. 6 | [29] 60.26 | 16 | 29.0 | 27 | [29] 45.07 | 62 | 65.1 | 26 | [30] 45.15 | 13 | 40.7 | 38 | [30] 58.06 | 20 | 16.6 | 1 |
| 16 | 60.42 | 20 | 26.3 | 28 | 45.69 | 82 | 62.5 | 23 | 45.28 | 22 | 36.9 | 37 | 58.26 | 24 | 16.7 | 3 |
| 26 | 60.62 | 24 | 23.5 | 26 | 46.51 | 100 | 60.2 | 20 | 45.50 | 31 | 33.2 | 34 | 58.50 | 28 | 17.0 | 5 |
| 36 | 60.86 | | 20.9 | | 47.51 | | 58.2 | | 45.81 | | 29.8 | | 58.78 | | 17.5 | |
| Mittl. Ort | 59.59 | | 41.5 | | 46.07 | | 55.8 | | 46.98 | | 55.7 | | 56.87 | | 7.0 | |
| | 609) | | | | 611) | | | | 615) | | | | 616) | | | |

| 1911 | β Herculis. $2^m.6$. | | | | A Draconis. $5^m.0$. | | | | σ Herculis. $4^m.1$. | | | | ζ Ophiuchi. $2^m.6$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. − | |
| | $16^h\ 26^m$ | | 21° 40′ | | $16^h\ 28^m$ | | 68° 57′ | | $16^h\ 31^m$ | | 42° 36′ | | $16^h\ 32^m$ | | 10° 23′ | |
| Jan. 0 | $21^s.81$ | 26 | 49″.7 | 27 | $6^s.30$ | 39 | 24″.5 | 34 | $12^s.11$ | 26 | 60″.6 | 32 | $13^s.40$ | 27 | 18″.3 | 13 |
| 10 | 22.07 | 28 | 47.0 | 25 | 6.69 | 49 | 21.1 | 30 | 12.37 | 31 | 57.4 | 29 | 13.67 | 29 | 19.6 | 14 |
| 20 | 22.35 | 30 | 44.5 | 22 | 7.18 | 57 | 18.1 | 24 | 12.68 | 33 | 54.5 | 25 | 13.96 | 31 | 21.0 | 13 |
| 30 | 22.65 | 32 | 42.3 | 18 | 7.75 | 62 | 15.7 | 19 | 13.01 | 36 | 52.0 | 20 | 14.27 | 32 | 22.3 | 12 |
| Febr. 9 | 22.97 | 32 | 40.5 | 14 | 8.37 | 65 | 13.8 | 12 | 13.37 | 37 | 50.0 | 15 | 14.59 | 31 | 23.5 | 11 |
| 19 | 23.29 | 31 | 39.1 | 9 | 9.02 | 67 | 12.6 | 6 | 13.74 | 37 | 48.5 | 8 | 14.90 | 32 | 24.6 | 10 |
| März 1 | 23.60 | 31 | 38.2 | 4 | 9.69 | 65 | 12.0 | 1 | 14.11 | 36 | 47.7 | 2 | 15.22 | 31 | 25.6 | 7 |
| 11 | 23.91 | 30 | 37.8 | 1 | 10.34 | 63 | 12.1 | 8 | 14.47 | 35 | 47.5 | 4 | 15.53 | 30 | 26.3 | 6 |
| 21 | 24.21 | 27 | 37.9 | 5 | 10.97 | 58 | 12.9 | 14 | 14.82 | 32 | 47.9 | 10 | 15.83 | 28 | 26.9 | 3 |
| 31 | 24.48 | 26 | 38.4 | 10 | 11.55 | 51 | 14.3 | 19 | 15.14 | 30 | 48.9 | 16 | 16.11 | 26 | 27.2 | 1 |
| April 10 | 24.74 | 23 | 39.4 | 13 | 12.06 | 43 | 16.2 | 24 | 15.44 | 26 | 50.5 | 20 | 16.37 | 24 | 27.3 | 0 |
| 20 | 24.97 | 20 | 40.7 | 17 | 12.49 | 35 | 18.6 | 28 | 15.70 | 23 | 52.5 | 23 | 16.61 | 22 | 27.3 | 2 |
| 30 | 25.17 | 17 | 42.4 | 19 | 12.84 | 24 | 21.4 | 30 | 15.93 | 18 | 54.8 | 26 | 16.83 | 20 | 27.1 | 3 |
| Mai 10 | 25.34 | 14 | 44.3 | 20 | 13.08 | 15 | 24.4 | 32 | 16.11 | 14 | 57.4 | 28 | 17.03 | 17 | 26.8 | 4 |
| 20 | 25.48 | 11 | 46.3 | 21 | 13.23 | 5 | 27.6 | 32 | 16.25 | 10 | 60.2 | 29 | 17.20 | 14 | 26.4 | 5 |
| 30 | 25.59 | 8 | 48.4 | 21 | 13.28 | 6 | 30.8 | 32 | 16.35 | 5 | 63.1 | 28 | 17.34 | 11 | 25.9 | 4 |
| Juni 9 | 25.67 | 3 | 50.5 | 21 | 13.22 | 16 | 34.0 | 30 | 16.40 | 0 | 65.9 | 28 | 17.45 | 7 | 25.5 | 5 |
| 19 | 25.70 | 0 | 52.6 | 19 | 13.06 | 24 | 37.0 | 27 | 16.40 | 4 | 68.7 | 25 | 17.52 | 4 | 25.0 | 5 |
| 29 | 25.70 | 3 | 54.5 | 18 | 12.82 | 34 | 39.7 | 25 | 16.36 | 9 | 71.2 | 23 | 17.56 | 0 | 24.5 | 5 |
| Juli 9 | 25.67 | 7 | 56.3 | 15 | 12.48 | 41 | 42.2 | 20 | 16.27 | 13 | 73.5 | 20 | 17.56 | 4 | 24.0 | 4 |
| 19 | 25.60 | 10 | 57.8 | 13 | 12.07 | 48 | 44.2 | 16 | 16.14 | 17 | 75.5 | 17 | 17.52 | 7 | 23.6 | 3 |
| 29 | 25.50 | 14 | 59.1 | 10 | 11.59 | 54 | 45.8 | 12 | 15.97 | 20 | 77.2 | 12 | 17.45 | 9 | 23.3 | 3 |
| Aug. 8 | 25.36 | 15 | 60.1 | 7 | 11.05 | 58 | 47.0 | 7 | 15.77 | 23 | 78.4 | 9 | 17.36 | 13 | 23.0 | 3 |
| 18 | 25.21 | 17 | 60.8 | 3 | 10.47 | 61 | 47.7 | 2 | 15.54 | 25 | 79.3 | 3 | 17.23 | 14 | 22.7 | 3 |
| 28 | 25.04 | 19 | 61.1 | 1 | 9.86 | 63 | 47.9 | 4 | 15.29 | 25 | 79.6 | 1 | 17.09 | 15 | 22.4 | 2 |
| Sept. 7 | 24.85 | 18 | 61.2 | 3 | 9.23 | 62 | 47.5 | 9 | 15.04 | 27 | 79.5 | 5 | 16.94 | 16 | 22.2 | 1 |
| 17 | 24.67 | 17 | 60.9 | 7 | 8.61 | 60 | 46.6 | 14 | 14.77 | 25 | 79.0 | 10 | 16.78 | 15 | 22.1 | 0 |
| 27 | 24.50 | 16 | 60.2 | 10 | 8.01 | 56 | 45.2 | 18 | 14.52 | 23 | 78.0 | 15 | 16.63 | 14 | 22.1 | 0 |
| Okt. 7 | 24.34 | 13 | 59.2 | 14 | 7.45 | 51 | 43.4 | 24 | 14.29 | 20 | 76.5 | 19 | 16.49 | 10 | 22.1 | 2 |
| 17 | 24.21 | 10 | 57.8 | 17 | 6.94 | 44 | 41.0 | 28 | 14.09 | 17 | 74.6 | 23 | 16.39 | 8 | 22.3 | 2 |
| 27 | 24.11 | 6 | 56.1 | 20 | 6.50 | 34 | 38.2 | 31 | 13.92 | 11 | 72.3 | 27 | 16.31 | 3 | 22.5 | 4 |
| Nov. 6 | 24.05 | 1 | 54.1 | 22 | 6.16 | 25 | 35.1 | 35 | 13.81 | 6 | 69.6 | 30 | 16.28 | 2 | 22.9 | 6 |
| 16 | 24.04 | 4 | 51.9 | 26 | 5.91 | 14 | 31.6 | 37 | 13.75 | 0 | 66.6 | 33 | 16.30 | 7 | 23.5 | 7 |
| 26 | 24.08 | 11 | 49.3 | 29 | 5.77 | 1 | 27.9 | 41 | 13.75 | 7 | 63.3 | 38 | 16.37 | 13 | 24.2 | 10 |
| Dez. 6 | 24.19 | 15 | 46.4 | 28 | 5.76 | 11 | 23.8 | 39 | 13.82 | 13 | 59.5 | 35 | 16.50 | 16 | 25.2 | 11 |
| 16 | 24.34 | 19 | 43.6 | 28 | 5.87 | 24 | 19.9 | 37 | 13.95 | 18 | 56.0 | 35 | 16.66 | 21 | 26.3 | 12 |
| 26 | 24.53 | 23 | 40.8 | 28 | 6.11 | 34 | 16.2 | 35 | 14.13 | 25 | 52.5 | 33 | 16.87 | 25 | 27.5 | 13 |
| 36 | 24.76 | | 38.0 | | 6.45 | | 12.7 | | 14.38 | | 49.2 | | 17.12 | | 28.8 | |
| Mittl. Ort | 23.60 | | 58.5 | | 9.09 | | 38.6 | | 14.01 | | 72.4 | | 15.40 | | 15.2 | |
| | 618) | | | | 619) | | | | 621) | | | | 622) | | | |

| 1911 | α Triang. austr. $1^m.9$. AR. | | Dekl. − | | η Herculis. $3^m.3$. AR. | | Dekl. + | | Gr. 2377. $4^m.9$. AR. | | Dekl. + | | ε Scorpii. $2^m.3$. AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $16^h 39^m$ | | 68° 51′ | | $16^h 39^m$ | | 39° 5′ | | $16^h 43^m$ | | 56° 55′ | | $16^h 44^m$ | | 34° 7′ | |
| Jan. 0 | 8.69 | 59 | 50.9 | 16 | 48.76 | 25 | 16.6 | 32 | 34.17 | 29 | 73.3 | 35 | 21.27 | 30 | 56.3 | 1 |
| 10 | 9.28 | 67 | 49.3 | 13 | 49.01 | 29 | 13.4 | 29 | 34.46 | 34 | 69.8 | 31 | 21.57 | 33 | 56.4 | 2 |
| 20 | 9.95 | 73 | 48.0 | 8 | 49.30 | 32 | 10.5 | 25 | 34.80 | 40 | 66.7 | 27 | 21.90 | 36 | 56.6 | 4 |
| 30 | 10.68 | 77 | 47.2 | 4 | 49.62 | 34 | 8.0 | 21 | 35.20 | 43 | 64.0 | 21 | 22.26 | 37 | 57.0 | 5 |
| Febr. 9 | 11.45 | 79 | 46.8 | 0 | 49.96 | 36 | 5.9 | 15 | 35.63 | 46 | 61.9 | 15 | 22.63 | 37 | 57.5 | 6 |
| 19 | 12.24 | 79 | 46.8 | 5 | 50.32 | 35 | 4.4 | 9 | 36.09 | 46 | 60.4 | 9 | 23.00 | 38 | 58.1 | 7 |
| März 1 | 13.03 | 78 | 47.3 | 8 | 50.67 | 35 | 3.5 | 3 | 36.55 | 46 | 59.5 | 1 | 23.38 | 36 | 58.8 | 8 |
| 11 | 13.81 | 76 | 48.1 | 12 | 51.02 | 34 | 3.2 | 3 | 37.01 | 45 | 59.4 | 5 | 23.74 | 36 | 59.6 | 8 |
| 21 | 14.57 | 72 | 49.3 | 15 | 51.36 | 31 | 3.5 | 9 | 37.46 | 41 | 59.9 | 11 | 24.10 | 34 | 60.4 | 8 |
| 31 | 15.29 | 67 | 50.8 | 18 | 51.67 | 30 | 4.4 | 14 | 37.87 | 38 | 61.0 | 16 | 24.44 | 32 | 61.2 | 9 |
| April 10 | 15.96 | 62 | 52.6 | 20 | 51.97 | 26 | 5.8 | 18 | 38.25 | 34 | 62.6 | 22 | 24.76 | 30 | 62.1 | 9 |
| 20 | 16.58 | 56 | 54.6 | 23 | 52.23 | 23 | 7.6 | 22 | 38.59 | 28 | 64.8 | 26 | 25.06 | 28 | 63.0 | 9 |
| 30 | 17.14 | 48 | 56.9 | 25 | 52.46 | 19 | 9.8 | 25 | 38.87 | 22 | 67.4 | 29 | 25.34 | 25 | 63.9 | 9 |
| Mai 10 | 17.62 | 39 | 59.4 | 26 | 52.65 | 15 | 12.3 | 27 | 39.09 | 17 | 70.3 | 31 | 25.59 | 20 | 64.8 | 9 |
| 20 | 18.01 | 32 | 62.0 | 27 | 52.80 | 11 | 15.0 | 28 | 39.26 | 10 | 73.4 | 31 | 25.79 | 18 | 65.7 | 9 |
| 30 | 18.33 | 20 | 64.7 | 26 | 52.91 | 7 | 17.8 | 28 | 39.36 | 3 | 76.5 | 32 | 25.97 | 14 | 66.6 | 9 |
| Juni 9 | 18.53 | 11 | 67.3 | 27 | 52.98 | 2 | 20.6 | 27 | 39.39 | 3 | 79.7 | 30 | 26.11 | 10 | 67.5 | 9 |
| 19 | 18.64 | 2 | 70.0 | 25 | 53.00 | 3 | 23.3 | 25 | 39.36 | 9 | 82.7 | 29 | 26.21 | 5 | 68.4 | 8 |
| 29 | 18.66 | 9 | 72.5 | 23 | 52.97 | 7 | 25.8 | 23 | 39.27 | 16 | 85.6 | 26 | 26.26 | 1 | 69.2 | 8 |
| Juli 9 | 18.57 | 18 | 74.8 | 21 | 52.90 | 10 | 28.1 | 20 | 39.11 | 21 | 88.2 | 22 | 26.27 | 3 | 70.0 | 6 |
| 19 | 18.39 | 28 | 76.9 | 18 | 52.80 | 15 | 30.1 | 17 | 38.90 | 27 | 90.4 | 19 | 26.24 | 8 | 70.6 | 6 |
| 29 | 18.11 | 35 | 78.7 | 15 | 52.65 | 18 | 31.8 | 13 | 38.63 | 30 | 92.3 | 14 | 26.16 | 11 | 71.2 | 4 |
| Aug. 8 | 17.76 | 42 | 80.2 | 10 | 52.47 | 21 | 33.1 | 9 | 38.33 | 34 | 93.7 | 10 | 26.05 | 15 | 71.6 | 3 |
| 18 | 17.34 | 47 | 81.2 | 5 | 52.26 | 23 | 34.0 | 5 | 37.99 | 37 | 94.7 | 4 | 25.90 | 17 | 71.9 | 1 |
| 28 | 16.87 | 49 | 81.7 | 1 | 52.03 | 24 | 34.5 | 1 | 37.62 | 39 | 95.1 | 0 | 25.73 | 18 | 72.0 | 1 |
| Sept. 7 | 16.38 | 50 | 81.8 | 4 | 51.79 | 25 | 34.6 | 4 | 37.23 | 39 | 95.1 | 5 | 25.55 | 19 | 71.9 | 3 |
| 17 | 15.88 | 47 | 81.4 | 8 | 51.54 | 24 | 34.2 | 9 | 36.84 | 38 | 94.6 | 11 | 25.36 | 19 | 71.6 | 4 |
| 27 | 15.41 | 44 | 80.6 | 13 | 51.30 | 22 | 33.3 | 13 | 36.46 | 36 | 93.5 | 15 | 25.17 | 17 | 71.2 | 5 |
| Okt. 7 | 14.97 | 36 | 79.3 | 17 | 51.08 | 19 | 32.0 | 18 | 36.10 | 32 | 92.0 | 21 | 25.00 | 14 | 70.7 | 7 |
| 17 | 14.61 | 28 | 77.6 | 21 | 50.89 | 15 | 30.2 | 22 | 35.78 | 27 | 89.9 | 24 | 24.86 | 10 | 70.0 | 8 |
| 27 | 14.33 | 18 | 75.5 | 23 | 50.74 | 12 | 28.0 | 25 | 35.51 | 22 | 87.5 | 29 | 24.76 | 5 | 69.2 | 8 |
| Nov. 6 | 14.15 | 5 | 73.2 | 24 | 50.62 | 6 | 25.5 | 28 | 35.29 | 15 | 84.6 | 32 | 24.71 | 1 | 68.4 | 8 |
| 16 | 14.10 | 8 | 70.8 | 26 | 50.56 | 0 | 22.7 | 32 | 35.14 | 7 | 81.4 | 35 | 24.72 | 6 | 67.6 | 7 |
| 26 | 14.18 | 23 | 68.2 | 27 | 50.56 | 7 | 19.5 | 36 | 35.07 | 1 | 77.9 | 41 | 24.78 | 14 | 66.9 | 7 |
| Dez. 6 | 14.41 | 33 | 65.5 | 23 | 50.63 | 12 | 15.9 | 34 | 35.08 | 9 | 73.8 | 38 | 24.92 | 19 | 66.2 | 4 |
| 16 | 14.74 | 46 | 63.2 | 21 | 50.75 | 17 | 12.5 | 34 | 35.17 | 18 | 70.0 | 37 | 25.11 | 23 | 65.8 | 3 |
| 26 | 15.20 | 55 | 61.1 | 18 | 50.92 | 23 | 9.1 | 33 | 35.35 | 25 | 66.3 | 35 | 25.34 | 29 | 65.5 | 1 |
| 36 | 15.75 | | 59.3 | | 51.15 | | 5.8 | | 35.60 | | 62.8 | | 25.63 | | 65.4 | |
| Mittl. Ort | 13.81 | | 55.8 | | 50.67 | | 27.8 | | 36.45 | | 86.0 | | 23.74 | | 56.6 | |
| | 625) | | | | 626) | | | | 627) | | | | 628) | | | |

| 1911 | 49 Herculis. 6m.5. AR. | | Dekl. + | | ζ² Scorpii. 3m.8. AR. | | Dekl. — | | ζ Arae. 3m.0. AR. | | Dekl. — | | κ Ophiuchi. 3m.2. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16h 47m | | 15° 7′ | | 16h 48m | | 42° 12′ | | 16h 51m | | 55° 50′ | | 16h 53m | | 9° 30′ | |
| Jan. 0 | 59.83 | 23 | 14.5 | 24 | 16.24 | 33 | 33.7 | 4 | 11.51 | 40 | 59.2 | 11 | 25.39 | 23 | 38.6 | 22 |
| 10 | 60.06 | 27 | 12.1 | 23 | 16.57 | 36 | 33.3 | 2 | 11.91 | 46 | 58.1 | 8 | 25.62 | 26 | 36.4 | 21 |
| 20 | 60.33 | 29 | 9.8 | 21 | 16.93 | 39 | 33.1 | 0 | 12.37 | 48 | 57.3 | 6 | 25.88 | 28 | 34.3 | 19 |
| 30 | 60.62 | 30 | 7.7 | 18 | 17.32 | 40 | 33.1 | 2 | 12.85 | 52 | 56.7 | 2 | 26.16 | 30 | 32.4 | 16 |
| Febr. 9 | 60.92 | 31 | 5.9 | 14 | 17.72 | 42 | 33.3 | 4 | 13.37 | 52 | 56.5 | 1 | 26.46 | 31 | 30.8 | 14 |
| 19 | 61.23 | 31 | 4.5 | 10 | 18.14 | 41 | 33.7 | 6 | 13.89 | 53 | 56.6 | 4 | 26.77 | 30 | 29.4 | 9 |
| März 1 | 61.54 | 30 | 3.5 | 5 | 18.55 | 41 | 34.3 | 7 | 14.42 | 53 | 57.0 | 7 | 27.07 | 31 | 28.5 | 6 |
| 11 | 61.84 | 29 | 3.0 | 1 | 18.96 | 40 | 35.0 | 9 | 14.95 | 51 | 57.7 | 9 | 27.38 | 29 | 27.9 | 2 |
| 21 | 62.13 | 29 | 2.9 | 4 | 19.36 | 38 | 35.9 | 10 | 15.46 | 49 | 58.6 | 12 | 27.67 | 28 | 27.7 | 2 |
| 31 | 62.42 | 26 | 3.3 | 7 | 19.74 | 36 | 36.9 | 11 | 15.95 | 47 | 59.8 | 13 | 27.95 | 26 | 27.9 | 6 |
| April 10 | 62.68 | 24 | 4.0 | 11 | 20.10 | 33 | 38.0 | 11 | 16.42 | 43 | 61.1 | 16 | 28.21 | 25 | 28.5 | 9 |
| 20 | 62.92 | 22 | 5.1 | 13 | 20.43 | 31 | 39.1 | 12 | 16.85 | 39 | 62.7 | 17 | 28.46 | 22 | 29.4 | 11 |
| 30 | 63.14 | 20 | 6.4 | 16 | 20.74 | 28 | 40.3 | 13 | 17.24 | 36 | 64.4 | 19 | 28.68 | 20 | 30.5 | 14 |
| Mai 10 | 63.34 | 16 | 8.0 | 18 | 21.02 | 24 | 41.6 | 13 | 17.60 | 30 | 66.3 | 20 | 28.88 | 17 | 31.9 | 15 |
| 20 | 63.50 | 14 | 9.8 | 19 | 21.26 | 20 | 42.9 | 14 | 17.90 | 24 | 68.3 | 20 | 29.05 | 14 | 33.4 | 16 |
| 30 | 63.64 | 10 | 11.7 | 19 | 21.46 | 15 | 44.3 | 13 | 18.14 | 19 | 70.3 | 20 | 29.19 | 11 | 35.0 | 16 |
| Juni 9 | 63.74 | 6 | 13.6 | 18 | 21.61 | 11 | 45.6 | 13 | 18.33 | 13 | 72.3 | 20 | 29.30 | 8 | 36.6 | 17 |
| 19 | 63.80 | 3 | 15.4 | 17 | 21.72 | 6 | 46.9 | 13 | 18.46 | 6 | 74.3 | 20 | 29.38 | 4 | 38.3 | 15 |
| 29 | 63.83 | 1 | 17.1 | 16 | 21.78 | 1 | 48.2 | 12 | 18.52 | 1 | 76.3 | 19 | 29.42 | 0 | 39.8 | 14 |
| Juli 9 | 63.82 | 5 | 18.7 | 15 | 21.79 | 4 | 49.4 | 11 | 18.51 | 7 | 78.2 | 16 | 29.42 | 4 | 41.2 | 13 |
| 19 | 63.77 | 8 | 20.2 | 13 | 21.75 | 9 | 50.5 | 8 | 18.44 | 13 | 79.8 | 14 | 29.38 | 7 | 42.5 | 11 |
| 29 | 63.69 | 11 | 21.5 | 10 | 21.66 | 12 | 51.3 | 7 | 18.31 | 19 | 81.2 | 12 | 29.31 | 10 | 43.6 | 9 |
| Aug. 8 | 63.58 | 13 | 22.5 | 8 | 21.54 | 17 | 52.0 | 5 | 18.12 | 23 | 82.4 | 8 | 29.21 | 13 | 44.5 | 7 |
| 18 | 63.45 | 16 | 23.3 | 5 | 21.37 | 19 | 52.5 | 3 | 17.89 | 27 | 83.2 | 5 | 29.08 | 14 | 45.2 | 4 |
| 28 | 63.29 | 17 | 23.8 | 1 | 21.18 | 21 | 52.8 | 0 | 17.62 | 30 | 83.7 | 2 | 28.94 | 17 | 45.6 | 2 |
| Sept. 7 | 63.12 | 18 | 23.9 | 1 | 20.97 | 22 | 52.8 | 3 | 17.32 | 30 | 83.9 | 3 | 28.77 | 17 | 45.8 | 0 |
| 17 | 62.94 | 17 | 23.8 | 4 | 20.75 | 22 | 52.5 | 5 | 17.02 | 30 | 83.6 | 6 | 28.60 | 16 | 45.8 | 3 |
| 27 | 62.77 | 16 | 23.4 | 7 | 20.53 | 19 | 52.0 | 7 | 16.72 | 26 | 83.0 | 10 | 28.44 | 16 | 45.5 | 5 |
| Okt. 7 | 62.61 | 13 | 22.7 | 10 | 20.34 | 16 | 51.3 | 9 | 16.46 | 23 | 82.0 | 13 | 28.28 | 13 | 45.0 | 8 |
| 17 | 62.48 | 10 | 21.7 | 13 | 20.18 | 12 | 50.4 | 11 | 16.23 | 17 | 80.7 | 15 | 28.15 | 10 | 44.2 | 11 |
| 27 | 62.38 | 7 | 20.4 | 16 | 20.06 | 6 | 49.3 | 12 | 16.06 | 11 | 79.2 | 18 | 28.05 | 6 | 43.1 | 14 |
| Nov. 6 | 62.31 | 2 | 18.8 | 19 | 20.00 | 0 | 48.1 | 12 | 15.95 | 3 | 77.4 | 19 | 27.99 | 2 | 41.7 | 15 |
| 16 | 62.29 | 2 | 16.9 | 21 | 20.00 | 6 | 46.9 | 12 | 15.92 | 6 | 75.5 | 19 | 27.97 | 3 | 40.2 | 18 |
| 26 | 62.31 | 8 | 14.8 | 23 | 20.06 | 13 | 45.7 | 11 | 15.98 | 14 | 73.6 | 19 | 28.00 | 8 | 38.4 | 21 |
| Dez. 6 | 62.39 | 14 | 12.5 | 27 | 20.19 | 21 | 44.6 | 11 | 16.12 | 25 | 71.7 | 19 | 28.08 | 14 | 36.3 | 23 |
| 16 | 62.53 | 18 | 9.8 | 25 | 20.40 | 25 | 43.5 | 8 | 16.37 | 30 | 69.8 | 16 | 28.22 | 17 | 34.0 | 22 |
| 26 | 62.71 | 22 | 7.3 | 24 | 20.65 | 31 | 42.7 | 6 | 16.67 | 38 | 68.2 | 13 | 28.39 | 21 | 31.8 | 22 |
| 36 | 62.93 | | 4.9 | | 20.96 | | 42.1 | | 17.05 | | 66.9 | | 28.60 | | 29.6 | |
| Mittl. Ort | 61.70 | | 22.4 | | 18.99 | | 34.8 | | 15.03 | | 61.8 | | 27.29 | | 45.7 | |
| | 629) | | | | 630) | | | | 631) | | | | 633) | | | |

| 1911 | ε Herculis. $3^m.6$. AR. | | ε Herculis. Dekl. + | | η Ophiuchi. $2^m.4$. AR. | | η Ophiuchi. Dekl. − | | ζ Draconis. $3^m.0$. AR. | | ζ Draconis. Dekl. + | | α Herculis. ($3^m.0$). AR. | | α Herculis. Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $16^h 56^m$ | Δ | 31° 3′ | Δ | $17^h 5^m$ | Δ | 15° 36′ | Δ | $17^h 8^m$ | Δ | 65° 48′ | Δ | $17^h 10^m$ | Δ | 14° 29′ | Δ |
| | s | | ″ | | s | | ″ | | s | | ″ | | s | | ″ | |
| Jan. 0 | 51.12 | 23 | 14.9 | 30 | 14.22 | 24 | 59.5 | 9 | 28.66 | 28 | 74.9 | 35 | 33.39 | 21 | 20.0 | 24 |
| 10 | 51.35 | 26 | 11.9 | 28 | 14.46 | 27 | 60.4 | 9 | 28.94 | 37 | 71.4 | 33 | 33.60 | 25 | 17.6 | 23 |
| 20 | 51.61 | 29 | 9.1 | 25 | 14.73 | 30 | 61.3 | 9 | 29.31 | 44 | 68.1 | 28 | 33.85 | 27 | 15.3 | 20 |
| 30 | 51.90 | 32 | 6.6 | 21 | 15.03 | 31 | 62.2 | 9 | 29.75 | 51 | 65.3 | 23 | 34.12 | 29 | 13.3 | 18 |
| Febr. 9 | 52.22 | 32 | 4.5 | 16 | 15.34 | 32 | 63.1 | 9 | 30.26 | 55 | 63.0 | 18 | 34.41 | 30 | 11.5 | 14 |
| 19 | 52.54 | 33 | 2.9 | 10 | 15.66 | 32 | 64.0 | 7 | 30.81 | 57 | 61.2 | 11 | 34.71 | 31 | 10.1 | 11 |
| März 1 | 52.87 | 33 | 1.9 | 5 | 15.98 | 32 | 64.7 | 6 | 31.38 | 58 | 60.1 | 4 | 35.02 | 30 | 9.0 | 6 |
| 11 | 53.20 | 32 | 1.4 | 1 | 16.30 | 32 | 65.3 | 5 | 31.96 | 58 | 59.7 | 2 | 35.32 | 30 | 8.4 | 1 |
| 21 | 53.52 | 30 | 1.5 | 6 | 16.62 | 30 | 65.8 | 3 | 32.54 | 55 | 59.9 | 9 | 35.62 | 29 | 8.3 | 3 |
| 31 | 53.82 | 29 | 2.1 | 11 | 16.92 | 29 | 66.1 | 1 | 33.09 | 51 | 60.8 | 16 | 35.91 | 27 | 8.6 | 7 |
| April 10 | 54.11 | 26 | 3.2 | 16 | 17.21 | 27 | 66.2 | 0 | 33.60 | 45 | 62.4 | 20 | 36.18 | 26 | 9.3 | 10 |
| 20 | 54.37 | 23 | 4.8 | 19 | 17.48 | 25 | 66.2 | 1 | 34.05 | 39 | 64.4 | 25 | 36.44 | 24 | 10.3 | 14 |
| 30 | 54.60 | 20 | 6.7 | 23 | 17.73 | 23 | 66.1 | 2 | 34.44 | 31 | 66.9 | 29 | 36.68 | 21 | 11.7 | 16 |
| Mai 10 | 54.80 | 17 | 9.0 | 24 | 17.96 | 20 | 65.9 | 2 | 34.75 | 23 | 69.8 | 31 | 36.89 | 18 | 13.3 | 18 |
| 20 | 54.97 | 14 | 11.4 | 25 | 18.16 | 18 | 65.7 | 3 | 34.98 | 14 | 72.9 | 32 | 37.07 | 16 | 15.1 | 18 |
| 30 | 55.11 | 9 | 13.9 | 26 | 18.34 | 14 | 65.4 | 2 | 35.12 | 6 | 76.1 | 33 | 37.23 | 12 | 16.9 | 20 |
| Juni 9 | 55.20 | 5 | 16.5 | 26 | 18.48 | 11 | 65.2 | 3 | 35.18 | 4 | 79.4 | 32 | 37.35 | 9 | 18.9 | 19 |
| 19 | 55.25 | 1 | 19.1 | 24 | 18.59 | 7 | 64.9 | 3 | 35.14 | 13 | 82.6 | 30 | 37.44 | 4 | 20.8 | 18 |
| 29 | 55.26 | 3 | 21.5 | 22 | 18.66 | 3 | 64.6 | 2 | 35.01 | 21 | 85.6 | 29 | 37.48 | 1 | 22.6 | 17 |
| Juli 9 | 55.23 | 7 | 23.7 | 20 | 18.69 | 1 | 64.4 | 2 | 34.80 | 29 | 88.5 | 25 | 37.49 | 2 | 24.3 | 16 |
| 19 | 55.16 | 11 | 25.7 | 17 | 18.68 | 5 | 64.2 | 2 | 34.51 | 36 | 91.0 | 22 | 37.47 | 7 | 25.9 | 13 |
| 29 | 55.05 | 14 | 27.4 | 14 | 18.63 | 8 | 64.0 | 1 | 34.15 | 42 | 93.2 | 17 | 37.40 | 9 | 27.2 | 11 |
| Aug. 8 | 54.91 | 17 | 28.8 | 10 | 18.55 | 11 | 63.9 | 2 | 33.73 | 47 | 94.9 | 13 | 37.31 | 13 | 28.3 | 9 |
| 18 | 54.74 | 19 | 29.8 | 6 | 18.44 | 14 | 63.7 | 1 | 33.26 | 52 | 96.2 | 8 | 37.18 | 16 | 29.2 | 6 |
| 28 | 54.55 | 21 | 30.4 | 2 | 18.30 | 15 | 63.6 | 1 | 32.74 | 54 | 97.0 | 3 | 37.02 | 16 | 29.8 | 3 |
| Sept. 7 | 54.34 | 22 | 30.6 | 1 | 18.15 | 17 | 63.5 | 1 | 32.20 | 56 | 97.3 | 3 | 36.86 | 18 | 30.1 | 0 |
| 17 | 54.12 | 21 | 30.5 | 6 | 17.98 | 16 | 63.4 | 1 | 31.64 | 55 | 97.0 | 8 | 36.68 | 18 | 30.1 | 3 |
| 27 | 53.91 | 20 | 29.9 | 10 | 17.82 | 15 | 63.3 | 0 | 31.09 | 53 | 96.2 | 13 | 36.50 | 17 | 29.8 | 5 |
| Okt. 7 | 53.71 | 18 | 28.9 | 14 | 17.67 | 13 | 63.3 | 1 | 30.56 | 49 | 94.9 | 17 | 36.33 | 14 | 29.3 | 9 |
| 17 | 53.53 | 14 | 27.5 | 18 | 17.54 | 9 | 63.2 | 1 | 30.07 | 44 | 93.2 | 23 | 36.19 | 12 | 28.4 | 12 |
| 27 | 53.39 | 11 | 25.7 | 22 | 17.45 | 6 | 63.3 | 1 | 29.63 | 37 | 90.9 | 27 | 36.07 | 8 | 27.2 | 14 |
| Nov. 6 | 53.28 | 5 | 23.5 | 24 | 17.39 | 1 | 63.4 | 2 | 29.26 | 30 | 88.2 | 31 | 35.99 | 4 | 25.8 | 17 |
| 16 | 53.23 | 1 | 21.1 | 28 | 17.38 | 4 | 63.6 | 4 | 28.96 | 20 | 85.1 | 34 | 35.95 | 0 | 24.1 | 20 |
| 26 | 53.22 | 5 | 18.3 | 29 | 17.42 | 9 | 64.0 | 4 | 28.76 | 9 | 81.7 | 36 | 35.95 | 6 | 22.1 | 22 |
| Dez. 6 | 53.27 | 12 | 15.4 | 34 | 17.51 | 15 | 64.4 | 7 | 28.67 | 1 | 78.1 | 41 | 36.01 | 12 | 19.9 | 26 |
| 16 | 53.39 | 16 | 12.0 | 32 | 17.66 | 18 | 65.1 | 8 | 28.68 | 12 | 74.0 | 38 | 36.13 | 15 | 17.3 | 24 |
| 26 | 53.55 | 20 | 8.8 | 30 | 17.84 | 23 | 65.9 | 8 | 28.80 | 23 | 70.2 | 36 | 36.28 | 20 | 14.9 | 24 |
| 36 | 53.75 | | 5.8 | | 18.07 | | 66.7 | | 29.03 | | 66.6 | | 36.48 | | 12.5 | |
| Mittl. Ort | 53.04 | | 24.8 | | 16.35 | | 55.7 | | 31.60 | | 87.1 | | 35.32 | | 27.9 | |
| | 634) | | | | 637) | | | | 639) | | | | 640) | | | |

| 1911 | δ Herculis. $3^m.0$ AR. | | Dekl. + | | π Herculis. $3^m.1$ AR. | | Dekl. + | | θ Ophiuchi. $3^m.2$ AR. | | Dekl. − | | β Arae. $2^m.7$ AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $17^h 11^m$ | | 24° 56′ | | $17^h 11^m$ | | 36° 54′ | | $17^h 16^m$ | | 24° 54′ | | $17^h 17^m$ | | 55° 26′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | | s | | ″ | |
| Jan. 0 | 20.59 | 21 | 27.7 | 28 | 54.78 | 22 | 21.9 | 32 | 30.21 | 26 | 44.4 | 3 | 50.37 | 36 | 48.3 | 14 |
| 10 | 20.80 | 25 | 24.9 | 26 | 55.00 | 25 | 18.7 | 30 | 30.47 | 28 | 44.7 | 4 | 50.73 | 42 | 46.9 | 12 |
| 20 | 21.05 | 27 | 22.3 | 24 | 55.25 | 29 | 15.7 | 26 | 30.75 | 31 | 45.1 | 5 | 51.15 | 46 | 45.7 | 8 |
| 30 | 21.32 | 30 | 19.9 | 20 | 55.54 | 32 | 13.1 | 22 | 31.06 | 32 | 45.6 | 6 | 51.61 | 49 | 44.9 | 6 |
| Febr. 9 | 21.62 | 30 | 17.9 | 16 | 55.86 | 33 | 10.9 | 17 | 31.38 | 34 | 46.2 | 5 | 52.10 | 51 | 44.3 | 2 |
| 19 | 21.92 | 32 | 16.3 | 11 | 56.19 | 34 | 9.2 | 12 | 31.72 | 34 | 46.7 | 5 | 52.61 | 52 | 44.1 | 0 |
| März 1 | 22.24 | 32 | 15.2 | 6 | 56.53 | 34 | 8.0 | 6 | 32.06 | 34 | 47.2 | 5 | 53.13 | 53 | 44.1 | 3 |
| 11 | 22.56 | 31 | 14.6 | 1 | 56.87 | 34 | 7.4 | 1 | 32.40 | 33 | 47.7 | 5 | 53.66 | 51 | 44.4 | 5 |
| 21 | 22.87 | 30 | 14.5 | 4 | 57.21 | 32 | 7.5 | 6 | 32.73 | 33 | 48.2 | 3 | 54.17 | 51 | 44.9 | 8 |
| 31 | 23.17 | 28 | 14.9 | 10 | 57.53 | 31 | 8.1 | 11 | 33.06 | 31 | 48.5 | 3 | 54.68 | 48 | 45.7 | 11 |
| April 10 | 23.45 | 26 | 15.9 | 13 | 57.84 | 28 | 9.2 | 16 | 33.37 | 30 | 48.8 | 3 | 55.16 | 46 | 46.8 | 12 |
| 20 | 23.71 | 24 | 17.2 | 17 | 58.12 | 26 | 10.8 | 21 | 33.67 | 27 | 49.1 | 3 | 55.62 | 42 | 48.0 | 14 |
| 30 | 23.95 | 22 | 18.9 | 20 | 58.38 | 22 | 12.9 | 24 | 33.94 | 26 | 49.4 | 2 | 56.04 | 39 | 49.4 | 16 |
| Mai 10 | 24.17 | 18 | 20.9 | 22 | 58.60 | 19 | 15.3 | 26 | 34.20 | 23 | 49.6 | 2 | 56.43 | 34 | 51.0 | 17 |
| 20 | 24.35 | 15 | 23.1 | 24 | 58.79 | 14 | 17.9 | 27 | 34.43 | 20 | 49.8 | 2 | 56.77 | 27 | 52.7 | 19 |
| 30 | 24.50 | 12 | 25.5 | 24 | 58.93 | 11 | 20.6 | 29 | 34.63 | 16 | 50.0 | 2 | 57.04 | 24 | 54.6 | 19 |
| Juni 9 | 24.62 | 7 | 27.9 | 23 | 59.04 | 6 | 23.5 | 27 | 34.79 | 13 | 50.2 | 3 | 57.28 | 18 | 56.5 | 19 |
| 19 | 24.69 | 3 | 30.2 | 23 | 59.10 | 1 | 26.2 | 27 | 34.92 | 8 | 50.5 | 2 | 57.46 | 10 | 58.4 | 20 |
| 29 | 24.72 | 0 | 32.5 | 21 | 59.11 | 3 | 28.9 | 25 | 35.00 | 5 | 50.7 | 3 | 57.56 | 4 | 60.4 | 19 |
| Juli 9 | 24.72 | 4 | 34.6 | 19 | 59.08 | 8 | 31.4 | 22 | 35.05 | 0 | 51.0 | 3 | 57.60 | 3 | 62.3 | 17 |
| 19 | 24.68 | 9 | 36.5 | 16 | 59.00 | 11 | 33.6 | 20 | 35.05 | 4 | 51.3 | 2 | 57.57 | 10 | 64.0 | 16 |
| 29 | 24.59 | 11 | 38.1 | 14 | 58.89 | 16 | 35.6 | 16 | 35.01 | 8 | 51.5 | 2 | 57.47 | 16 | 65.6 | 13 |
| Aug. 8 | 24.48 | 15 | 39.5 | 11 | 58.73 | 18 | 37.2 | 12 | 34.93 | 12 | 51.7 | 2 | 57.31 | 21 | 66.9 | 11 |
| 18 | 24.33 | 18 | 40.6 | 7 | 58.55 | 21 | 38.4 | 8 | 34.81 | 14 | 51.9 | 1 | 57.10 | 25 | 68.0 | 7 |
| 28 | 24.15 | 19 | 41.3 | 3 | 58.34 | 24 | 39.2 | 4 | 34.67 | 16 | 52.0 | 0 | 56.85 | 28 | 68.7 | 5 |
| Sept. 7 | 23.96 | 20 | 41.6 | 0 | 58.10 | 24 | 39.6 | 0 | 34.51 | 18 | 52.0 | 1 | 56.57 | 30 | 69.2 | 0 |
| 17 | 23.76 | 19 | 41.6 | 4 | 57.86 | 24 | 39.6 | 5 | 34.33 | 17 | 51.9 | 1 | 56.27 | 30 | 69.2 | 4 |
| 27 | 23.57 | 19 | 41.2 | 7 | 57.62 | 23 | 39.1 | 10 | 34.16 | 16 | 51.8 | 2 | 55.97 | 28 | 68.8 | 7 |
| Okt. 7 | 23.38 | 17 | 40.5 | 12 | 57.39 | 21 | 38.1 | 14 | 34.00 | 14 | 51.6 | 3 | 55.69 | 25 | 68.1 | 10 |
| 17 | 23.21 | 14 | 39.3 | 15 | 57.18 | 17 | 36.7 | 18 | 33.86 | 11 | 51.3 | 3 | 55.44 | 21 | 67.1 | 14 |
| 27 | 23.07 | 10 | 37.8 | 19 | 57.01 | 14 | 34.9 | 22 | 33.75 | 7 | 51.0 | 3 | 55.23 | 13 | 65.7 | 16 |
| Nov. 6 | 22.97 | 6 | 35.9 | 21 | 56.87 | 9 | 32.7 | 26 | 33.68 | 2 | 50.7 | 2 | 55.10 | 7 | 64.1 | 18 |
| 16 | 22.91 | 1 | 33.8 | 25 | 56.78 | 3 | 30.1 | 28 | 33.66 | 3 | 50.5 | 3 | 55.03 | 1 | 62.3 | 18 |
| 26 | 22.90 | 4 | 31.3 | 26 | 56.75 | 2 | 27.3 | 31 | 33.69 | 8 | 50.2 | 1 | 55.04 | 10 | 60.5 | 19 |
| Dez. 6 | 22.94 | 11 | 28.7 | 31 | 56.77 | 8 | 24.2 | 36 | 33.77 | 15 | 50.1 | 0 | 55.14 | 21 | 58.6 | 20 |
| | 11 | | | | 11 | | | | 12 | | | | 12 | | | |
| 16 | 23.05 | 14 | 25.6 | 29 | 56.85 | 14 | 20.6 | 33 | 33.92 | 19 | 50.1 | 1 | 55.35 | 26 | 56.6 | 17 |
| 26 | 23.19 | 20 | 22.7 | 28 | 56.99 | 19 | 17.3 | 32 | 34.11 | 23 | 50.2 | 3 | 55.61 | 33 | 54.9 | 16 |
| 36 | 23.39 | | 19.9 | | 57.18 | | 14.1 | | 34.34 | | 50.5 | | 55.94 | | 53.3 | |
| Mittl. Ort | 22.53 | | 36.8 | | 56.81 | | 32.2 | | 32.52 | | 41.3 | | 53.91 | | 48.2 | |
| | 641) | | | | 643) | | | | 644) | | | | 645) | | | |

| 1911 | δ Arae. 3ᵐ.6. | | | | α Arae. 2ᵐ.8. | | | |
|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. — | | AR. | | Dekl. — | |
| | 17ʰ 22ᵐ | | 60° 36′ | | 17ʰ 24ᵐ | | 49° 48′ | |
| Jan. 0 | 59.68 | 40 | 38.0 | 17 | 54.38 | 33 | 24.7 | 11 |
| 10 | 60.08 | 46 | 36.3 | 14 | 54.71 | 37 | 23.6 | 10 |
| 20 | 60.54 | 51 | 34.9 | 11 | 55.08 | 41 | 22.6 | 7 |
| 30 | 61.05 | 56 | 33.8 | 8 | 55.49 | 43 | 21.9 | 4 |
| Febr. 9 | 61.61 | 57 | 33.0 | 5 | 55.92 | 45 | 21.5 | 3 |
| 19 | 62.18 | 60 | 32.5 | 1 | 56.37 | 46 | 21.2 | —1 |
| März 1 | 62.78 | 59 | 32.4 | —1 | 56.83 | 47 | 21.3 | 2 |
| 11 | 63.37 | 59 | 32.5 | 5 | 57.30 | 46 | 21.5 | 5 |
| 21 | 63.96 | 58 | 33.0 | 8 | 57.76 | 44 | 22.0 | 6 |
| 31 | 64.54 | 56 | 33.8 | 10 | 58.20 | 44 | 22.6 | 8 |
| April 10 | 65.10 | 52 | 34.8 | 14 | 58.64 | 42 | 23.4 | 10 |
| 20 | 65.62 | 49 | 36.2 | 15 | 59.06 | 39 | 24.4 | 12 |
| 30 | 66.11 | 44 | 37.7 | 17 | 59.45 | 35 | 25.6 | 12 |
| Mai 10 | 66.55 | 39 | 39.4 | 19 | 59.80 | 32 | 26.8 | 15 |
| 20 | 66.94 | 33 | 41.3 | 21 | 60.12 | 27 | 28.3 | 15 |
| 30 | 67.27 | 27 | 43.4 | 22 | 60.39 | 22 | 29.8 | 16 |
| Juni 9 | 67.54 | 19 | 45.6 | 21 | 60.61 | 17 | 31.4 | 16 |
| 19 | 67.73 | 12 | 47.7 | 22 | 60.78 | 11 | 33.0 | 17 |
| 29 | 67.85 | 4 | 49.9 | 22 | 60.89 | 5 | 34.7 | 16 |
| Juli 9 | 67.89 | —4 | 52.1 | 19 | 60.94 | —1 | 36.3 | 15 |
| 19 | 67.85 | 12 | 54.0 | 18 | 60.93 | 7 | 37.8 | 14 |
| 29 | 67.73 | 18 | 55.8 | 16 | 60.86 | 12 | 39.2 | 12 |
| Aug. 8 | 67.55 | 25 | 57.4 | 13 | 60.74 | 17 | 40.4 | 10 |
| 18 | 67.30 | 30 | 58.7 | 9 | 60.57 | 21 | 41.4 | 6 |
| 28 | 67.00 | 33 | 59.6 | 5 | 60.36 | 24 | 42.0 | 4 |
| Sept. 7 | 66.67 | 35 | 60.1 | 1 | 60.12 | 26 | 42.4 | 1 |
| 17 | 66.32 | 36 | 60.2 | —3 | 59.86 | 26 | 42.5 | —2 |
| 27 | 65.96 | 34 | 59.9 | 8 | 59.60 | 24 | 42.3 | 6 |
| Okt. 7 | 65.62 | 30 | 59.1 | 11 | 59.36 | 22 | 41.7 | 9 |
| 17 | 65.32 | 25 | 58.0 | 14 | 59.14 | 18 | 40.8 | 11 |
| 27 | 65.07 | 17 | 56.6 | 18 | 58.96 | 12 | 39.7 | 13 |
| Nov. 6 | 64.90 | 10 | 54.8 | 19 | 58.84 | 6 | 38.4 | 15 |
| 16 | 64.80 | 0 | 52.9 | 21 | 58.78 | —1 | 36.9 | 16 |
| 26 | 64.80 | 9 | 50.8 | 22 | 58.79 | 8 | 35.3 | 16 |
| Dez. 6 | 64.89 | 20 | 48.6 | 23 | 58.87 | 18 | 33.7 | 17 |
| 16 | [14] 65.09 | 28 | 46.3 | 20 | [14] 59.05 | 23 | 32.0 | 14 |
| 26 | 65.37 | 36 | 44.3 | 18 | 59.28 | 29 | 30.6 | 13 |
| 36 | 65.73 | | 42.5 | | 59.57 | | 29.3 | |
| Mittl. Ort | 63.70 | | 37.9 | | 57.56 | | 23.6 | |
| | 648) | | | | 651) | | | |

| 1911 | λ Scorpii. 1ᵐ.7. | | | | β Draconis. 2ᵐ.7. | | | |
|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. — | | AR. | | Dekl. + | |
| | 17ʰ 27ᵐ | | 37° 2′ | | 17ʰ 28ᵐ | | 52° 21′ | |
| Jan. 0 | 31.15 | 26 | 25.4 | 5 | 22.89 | 20 | 50.2 | 36 |
| 10 | 31.41 | 31 | 24.9 | 3 | 23.09 | 26 | 46.6 | 33 |
| 20 | 31.72 | 34 | 24.6 | 1 | 23.35 | 32 | 43.3 | 29 |
| 30 | 32.06 | 36 | 24.5 | 0 | 23.67 | 35 | 40.4 | 25 |
| Febr. 9 | 32.42 | 37 | 24.5 | 1 | 24.02 | 39 | 37.9 | 20 |
| 19 | 32.79 | 38 | 24.6 | 2 | 24.41 | 41 | 35.9 | 13 |
| März 1 | 33.17 | 39 | 24.8 | 3 | 24.82 | 41 | 34.6 | 7 |
| 11 | 33.56 | 38 | 25.1 | 3 | 25.23 | 42 | 33.9 | 0 |
| 21 | 33.94 | 37 | 25.4 | 5 | 25.65 | 40 | 33.9 | 6 |
| 31 | 34.31 | 36 | 25.9 | 5 | 26.05 | 38 | 34.5 | 12 |
| April 10 | 34.67 | 34 | 26.4 | 6 | 26.43 | 36 | 35.7 | 18 |
| 20 | 35.01 | 32 | 27.0 | 7 | 26.79 | 31 | 37.5 | 23 |
| 30 | 35.33 | 30 | 27.7 | 7 | 27.10 | 27 | 39.8 | 26 |
| Mai 10 | 35.63 | 27 | 28.4 | 7 | 27.37 | 23 | 42.4 | 29 |
| 20 | 35.90 | 22 | 29.1 | 9 | 27.60 | 16 | 45.3 | 31 |
| 30 | 36.12 | 21 | 30.0 | 9 | 27.76 | 11 | 48.4 | 32 |
| Juni 9 | 36.33 | 15 | 30.9 | 9 | 27.87 | 5 | 51.6 | 32 |
| 19 | 36.48 | 10 | 31.8 | 9 | 27.92 | —1 | 54.8 | 31 |
| 29 | 36.58 | 6 | 32.7 | 9 | 27.91 | 7 | 57.9 | 28 |
| Juli 9 | 36.64 | 1 | 33.6 | 9 | 27.84 | 12 | 60.7 | 27 |
| 19 | 36.65 | —4 | 34.5 | 9 | 27.72 | 18 | 63.4 | 23 |
| 29 | 36.61 | 9 | 35.4 | 7 | 27.54 | 23 | 65.7 | 20 |
| Aug. 8 | 36.52 | 13 | 36.1 | 6 | 27.31 | 27 | 67.7 | 15 |
| 18 | 36.39 | 16 | 36.7 | 4 | 27.04 | 31 | 69.2 | 11 |
| 28 | 36.23 | 18 | 37.1 | 2 | 26.73 | 33 | 70.3 | 6 |
| Sept. 7 | 36.05 | 20 | 37.3 | 1 | 26.40 | 35 | 70.9 | 1 |
| 17 | 35.85 | 21 | 37.4 | —2 | 26.05 | 35 | 71.0 | —4 |
| 27 | 35.64 | 19 | 37.2 | 4 | 25.70 | 34 | 70.6 | 9 |
| Okt. 7 | 35.45 | 17 | 36.8 | 5 | 25.36 | 31 | 69.7 | 14 |
| 17 | 35.28 | 13 | 36.3 | 7 | 25.05 | 28 | 68.3 | 19 |
| 27 | 35.15 | 10 | 35.6 | 8 | 24.77 | 24 | 66.4 | 24 |
| Nov. 6 | 35.05 | 4 | 34.8 | 8 | 24.53 | 18 | 64.0 | 27 |
| 16 | 35.01 | —2 | 34.0 | 9 | 24.35 | 12 | 61.3 | 31 |
| 26 | 35.03 | 7 | 33.1 | 9 | 24.23 | 5 | 58.2 | 34 |
| Dez. 6 | 35.10 | 15 | 32.2 | 9 | 24.18 | —2 | 54.8 | 39 |
| 16 | [15] 35.25 | 20 | 31.3 | 7 | [15] 24.20 | 10 | 50.9 | 36 |
| 26 | 35.45 | 25 | 30.6 | 5 | 24.30 | 18 | 47.3 | 36 |
| 36 | 35.70 | | 30.1 | | 24.48 | | 43.7 | |
| Mittl. Ort | 33.78 | | 22.8 | | 25.27 | | 60.8 | |
| | 652) | | | | 653) | | | |

| 1911 | α Ophiuchi. $2^m.1$. AR. | | Dekl. + | | ϑ Scorpii. $1^m.9$. AR. | | Dekl. — | | ξ Serpentis. $3^m.5$. AR. | | Dekl. — | | η Pavonis. $3^m.5$. AR. | | Dekl. — | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $17^h\ 30^m$ | | 12° 37′ | | $17^h\ 30^m$ | | 42° 56′ | | $17^h\ 32^m$ | | 15° 20′ | | $17^h\ 36^m$ | | 64° 40′ | |
| Jan. 0 | $46^s.17$ | 20 | 19″.0 | 23 | 52.44 | 28 | 33.8 | 8 | 27.19 | 22 | 40.9 | 8 | 55.12 | 42 | 57.1 | 20 |
| 10 | 46.37 | 23 | 16.7 | 22 | 52.72 | 33 | 33.0 | 6 | 27.41 | 25 | 41.7 | 8 | 55.54 | 49 | 55.1 | 17 |
| 20 | 46.60 | 25 | 14.5 | 20 | 53.05 | 36 | 32.4 | 5 | 27.66 | 28 | 42.5 | 9 | 56.03 | 56 | 53.4 | 14 |
| 30 | 46.85 | 28 | 12.5 | 18 | 53.41 | 38 | 31.9 | 3 | 27.94 | 30 | 43.4 | 7 | 56.59 | 60 | 52.0 | 12 |
| Febr. 9 | 47.13 | 29 | 10.7 | 14 | 53.79 | 40 | 31.6 | 1 — | 28.24 | 31 | 44.1 | 7 | 57.19 | 65 | 50.8 | 7 |
| 19 | 47.42 | 30 | 9.3 | 10 | 54.19 | 42 | 31.5 | 1 | 28.55 | 31 | 44.8 | 6 | 57.84 | 66 | 50.1 | 4 |
| März 1 | 47.72 | 31 | 8.3 | 7 | 54.61 | 41 | 31.6 | 2 | 28.86 | 32 | 45.4 | 4 | 58.50 | 68 | 49.7 | 1 — |
| 11 | 48.03 | 29 | 7.6 | 2 — | 55.02 | 42 | 31.8 | 3 | 29.18 | 32 | 45.8 | 3 | 59.18 | 67 | 49.6 | 3 |
| 21 | 48.32 | 30 | 7.4 | 2 | 55.44 | 40 | 32.1 | 5 | 29.50 | 31 | 46.1 | 1 | 59.85 | 66 | 49.9 | 6 |
| 31 | 48.62 | 28 | 7.6 | 7 | 55.84 | 39 | 32.6 | 6 | 29.81 | 30 | 46.2 | 0 | 60.51 | 65 | 50.5 | 9 |
| April 10 | 48.90 | 27 | 8.3 | 9 | 56.23 | 38 | 33.2 | 7 | 30.11 | 28 | 46.2 | 1 | 61.16 | 61 | 51.4 | 12 |
| 20 | 49.17 | 25 | 9.2 | 13 | 56.61 | 35 | 33.9 | 9 | 30.39 | 27 | 46.1 | 3 | 61.77 | 57 | 52.6 | 15 |
| 30 | 49.42 | 23 | 10.5 | 15 | 56.96 | 32 | 34.8 | 9 | 30.66 | 25 | 45.8 | 3 | 62.34 | 52 | 54.1 | 18 |
| Mai 10 | 49.65 | 20 | 12.0 | 17 | 57.28 | 29 | 35.7 | 11 | 30.91 | 23 | 45.5 | 3 | 62.86 | 46 | 55.9 | 19 |
| 20 | 49.85 | 18 | 13.7 | 19 | 57.57 | 25 | 36.8 | 11 | 31.14 | 20 | 45.2 | 4 | 63.32 | 40 | 57.8 | 21 |
| 30 | 50.03 | 14 | 15.6 | 19 | 57.82 | 21 | 37.9 | 12 | 31.34 | 17 | 44.8 | 4 | 63.72 | 32 | 59.9 | 22 |
| Juni 9 | 50.17 | 11 | 17.5 | 19 | 58.03 | 17 | 39.1 | 13 | 31.51 | 13 | 44.4 | 4 | 64.04 | 23 | 62.1 | 24 |
| 19 | 50.28 | 6 | 19.4 | 18 | 58.20 | 11 | 40.4 | 12 | 31.64 | 10 | 44.0 | 3 | 64.27 | 16 | 64.5 | 23 |
| 29 | 50.34 | 3 — | 21.2 | 17 | 58.31 | 6 | 41.6 | 13 | 31.74 | 5 | 43.7 | 3 | 64.43 | 6 — | 66.8 | 23 |
| Juli 9 | 50.37 | 1 | 22.9 | 15 | 58.37 | 1 — | 42.9 | 12 | 31.79 | 1 — | 43.4 | 3 | 64.49 | 3 | 69.1 | 22 |
| 19 | 50.36 | 4 | 24.4 | 14 | 58.38 | 5 | 44.1 | 11 | 31.80 | 2 | 43.1 | 1 | 64.46 | 12 | 71.3 | 20 |
| 29 | 50.32 | 9 | 25.8 | 12 | 58.33 | 9 | 45.2 | 10 | 31.78 | 7 | 43.0 | 2 | 64.34 | 20 | 73.3 | 18 |
| Aug. 8 | 50.23 | 11 | 27.0 | 9 | 58.24 | 14 | 46.2 | 7 | 31.71 | 10 | 42.8 | 1 | 64.14 | 28 | 75.1 | 15 |
| 18 | 50.12 | 14 | 27.9 | 6 | 58.10 | 18 | 46.9 | 6 | 31.61 | 12 | 42.7 | 1 | 63.86 | 34 | 76.6 | 12 |
| 28 | 49.98 | 17 | 28.5 | 4 | 57.92 | 20 | 47.5 | 4 | 31.49 | 15 | 42.6 | 0 | 63.52 | 38 | 77.8 | 7 |
| Sept. 7 | 49.81 | 17 | 28.9 | 2 — | 57.72 | 22 | 47.9 | 1 — | 31.34 | 17 | 42.6 | 1 | 63.14 | 41 | 78.5 | 3 — |
| 17 | 49.64 | 18 | 29.1 | 2 | 57.50 | 23 | 48.0 | 2 | 31.17 | 17 | 42.5 | 0 | 62.73 | 42 | 78.8 | 2 |
| 27 | 49.46 | 17 | 28.9 | 4 | 57.27 | 21 | 47.8 | 4 | 31.00 | 15 | 42.5 | 0 | 62.31 | 40 | 78.6 | 8 |
| Okt. 7 | 49.29 | 15 | 28.5 | 8 | 57.06 | 19 | 47.4 | 7 | 30.85 | 14 | 42.5 | 1 | 61.91 | 36 | 77.8 | 10 |
| 17 | 49.14 | 13 | 27.7 | 10 | 56.87 | 16 | 46.7 | 9 | 30.71 | 12 | 42.6 | 1 | 61.55 | 31 | 76.8 | 13 |
| 27 | 49.01 | 10 | 26.7 | 13 | 56.71 | 11 | 45.8 | 10 | 30.59 | 8 | 42.7 | 1 | 61.24 | 24 | 75.5 | 18 |
| Nov. 6 | 48.91 | 5 | 25.4 | 15 | 56.60 | 5 — | 44.8 | 12 | 30.51 | 3 — | 42.8 | 2 | 61.00 | 15 | 73.7 | 20 |
| 16 | 48.86 | 1 — | 23.9 | 18 | 56.55 | 1 | 43.6 | 12 | 30.48 | 1 | 43.0 | 4 | 60.85 | 5 — | 71.7 | 22 |
| 26 | 48.85 | 4 | 22.1 | 21 | 56.56 | 8 | 42.4 | 12 | 30.49 | 6 | 43.4 | 4 | 60.80 | 6 | 69.5 | 24 |
| Dez. 6 | 48.89 | 9 | 20.0 | 23 | 56.64 | 16 | 41.2 | 12 | 30.55 | 11 | 43.8 | 5 | 60.86 | 17 | 67.1 | 23 |
| 16 | 15 48.98 | 14 | 17.7 | 23 | 15 56.80 | 20 | 40.0 | 11 | 30.66 | 17 | 44.3 | 7 | 61.03 | 30 | 64.8 | 25 |
| 26 | 49.12 | 18 | 15.4 | 23 | 57.00 | 26 | 38.9 | 9 | 16 30.83 | 20 | 45.0 | 8 | 17 61.33 | 37 | 62.3 | 21 |
| 36 | 49.30 | | 13.1 | | 57.26 | | 38.0 | | 31.03 | | 45.8 | | 61.70 | | 60.2 | |
| Mittl. Ort | 48.15 | | 26.8 | | 55.28 | | 31.5 | | 29.36 | | 35.9 | | 59.67 | | 55.9 | |
| | 656) | | | | 654) | | | | 658) | | | | 661) | | | |

| 1911 | ι Herculis. $3^m.6$. AR. | | Dekl. + | | ω Draconis. $4^m.9$. AR. | | Dekl + | |
|---|---|---|---|---|---|---|---|---|
| | $17^h\,36^m$ | | $46°\,2'$ | | $17^h\,37^m$ | | $68°\,47'$ | |
| Jan. 0 | 54.86 | 19 | 61.3 | 34 | 24.77 | 21 | 46.4 | 36 |
| 10 | 55.05 | 24 | 57.9 | 33 | 24.98 | 33 | 42.8 | 34 |
| 20 | 55.29 | 28 | 54.6 | 29 | 25.31 | 43 | 39.4 | 31 |
| 30 | 55.57 | 32 | 51.7 | 24 | 25.74 | 51 | 36.3 | 26 |
| Febr. 9 | 55.89 | 35 | 49.3 | 20 | 26.25 | 57 | 33.7 | 20 |
| 19 | 56.24 | 36 | 47.3 | 14 | 26.82 | 61 | 31.7 | 14 |
| März 1 | 56.60 | 38 | 45.9 | 8 | 27.43 | 64 | 30.3 | 8 |
| 11 | 56.98 | 38 | 45.1 | 1 | 28.07 | 65 | 29.5 | 0 |
| 21 | 57.36 | 36 | 45.0 | 5 | 28.72 | 63 | 29.5 | 6 |
| 31 | 57.72 | 35 | 45.5 | 11 | 29.35 | 60 | 30.1 | 12 |
| April 10 | 58.07 | 33 | 46.6 | 16 | 29.95 | 54 | 31.3 | 18 |
| 20 | 58.40 | 30 | 48.2 | 21 | 30.49 | 48 | 33.1 | 23 |
| 30 | 58.70 | 26 | 50.3 | 25 | 30.97 | 40 | 35.4 | 27 |
| Mai 10 | 58.96 | 22 | 52.8 | 28 | 31.37 | 31 | 38.1 | 30 |
| 20 | 59.18 | 18 | 55.6 | 30 | 31.68 | 21 | 41.1 | 32 |
| 30 | 59.36 | 13 | 58.6 | 31 | 31.89 | 12 | 44.3 | 33 |
| Juni 9 | 59.49 | 7 | 61.7 | 31 | 32.01 | 1 | 47.6 | 33 |
| 19 | 59.56 | 2 | 64.8 | 30 | 32.02 | 10 | 50.9 | 33 |
| 29 | 59.58 | 3 | 67.8 | 29 | 31.92 | 19 | 54.2 | 30 |
| Juli 9 | 59.55 | 8 | 70.7 | 26 | 31.73 | 29 | 57.2 | 28 |
| 19 | 59.47 | 14 | 73.3 | 23 | 31.44 | 37 | 60.0 | 25 |
| 29 | 59.33 | 18 | 75.6 | 19 | 31.07 | 46 | 62.5 | 21 |
| Aug. 8 | 59.15 | 22 | 77.5 | 16 | 30.61 | 52 | 64.6 | 17 |
| 18 | 58.93 | 25 | 79.1 | 12 | 30.09 | 58 | 66.3 | 12 |
| 28 | 58.68 | 28 | 80.3 | 7 | 29.51 | 62 | 67.5 | 7 |
| Sept. 7 | 58.40 | 29 | 81.0 | 2 | 28.89 | 64 | 68.2 | 2 |
| 17 | 58.11 | 30 | 81.2 | 2 | 28.25 | 64 | 68.4 | 3 |
| 27 | 57.81 | 29 | 81.0 | 7 | 27.61 | 64 | 68.1 | 8 |
| Okt. 7 | 57.52 | 27 | 80.3 | 13 | 26.97 | 60 | 67.3 | 14 |
| 17 | 57.25 | 24 | 79.0 | 17 | 26.37 | 56 | 65.9 | 19 |
| 27 | 57.01 | 20 | 77.3 | 22 | 25.81 | 49 | 64.0 | 23 |
| Nov. 6 | 56.81 | 15 | 75.1 | 26 | 25.32 | 41 | 61.7 | 28 |
| 16 | 56.66 | 10 | 72.5 | 29 | 24.91 | 31 | 58.9 | 31 |
| 26 | 56.56 | 4 | 69.6 | 32 | 24.60 | 21 | 55.8 | 34 |
| Dez. 6 | 56.52 | 3 | 66.4 | 34 | 24.39 | 9 | 52.4 | 36 |
| 16 | 56.55 | 10 | 63.0 | 38 | 24.30 | 4 | 48.8 | 41 |
| 26 | 17 56.65 | 16 | 59.2 | 35 | 17 24.34 | 16 | 44.7 | 37 |
| 36 | 56.81 | | 55.7 | | 24.50 | | 41.0 | |
| Mittl. Ort | 57.12 | | 71.4 | | 28.23 | | 57.0 | |
| | 663) | | | | 664) | | | |

| 1911 | β Ophiuchi. $2^m.8$. AR. | | Dekl. + | | μ Herculis. $3^m.3$. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|
| | $17^h\,39^m$ | | $4°\,35'$ | | $17^h\,42^m$ | | $27°\,45'$ | |
| Jan. 0 | 2.50 | 20 | 66.2 | 19 | 56.42 | 18 | 70.8 | 29 |
| 10 | 2.70 | 23 | 64.3 | 17 | 56.60 | 22 | 67.9 | 28 |
| 20 | 2.93 | 25 | 62.6 | 17 | 56.82 | 25 | 65.1 | 25 |
| 30 | 3.18 | 27 | 60.9 | 15 | 57.07 | 28 | 62.6 | 22 |
| Febr. 9 | 3.45 | 29 | 59.4 | 12 | 57.35 | 29 | 60.4 | 18 |
| 19 | 3.74 | 30 | 58.2 | 9 | 57.64 | 31 | 58.6 | 13 |
| März 1 | 4.04 | 30 | 57.3 | 6 | 57.95 | 32 | 57.3 | 7 |
| 11 | 4.34 | 30 | 56.7 | 2 | 58.27 | 32 | 56.6 | 3 |
| 21 | 4.64 | 29 | 56.5 | 1 | 58.59 | 31 | 56.3 | 3 |
| 31 | 4.93 | 28 | 56.6 | 5 | 58.90 | 30 | 56.6 | 8 |
| April 10 | 5.21 | 28 | 57.1 | 7 | 59.20 | 28 | 57.4 | 13 |
| 20 | 5.49 | 25 | 57.8 | 10 | 59.48 | 27 | 58.7 | 17 |
| 30 | 5.74 | 24 | 58.8 | 13 | 59.75 | 24 | 60.4 | 20 |
| Mai 10 | 5.98 | 21 | 60.1 | 14 | 59.99 | 21 | 62.4 | 23 |
| 20 | 6.19 | 19 | 61.5 | 14 | 60.20 | 18 | 64.7 | 25 |
| 30 | 6.38 | 15 | 62.9 | 15 | 60.38 | 14 | 67.2 | 25 |
| Juni 9 | 6.53 | 12 | 64.4 | 16 | 60.52 | 10 | 69.7 | 26 |
| 19 | 6.65 | 9 | 66.0 | 14 | 60.62 | 6 | 72.3 | 24 |
| 29 | 6.74 | 4 | 67.4 | 14 | 60.68 | 2 | 74.7 | 24 |
| Juli 9 | 6.78 | 1 | 68.8 | 12 | 60.70 | 2 | 77.1 | 22 |
| 19 | 6.79 | 4 | 70.0 | 11 | 60.68 | 7 | 79.3 | 19 |
| 29 | 6.75 | 7 | 71.1 | 10 | 60.61 | 11 | 81.2 | 17 |
| Aug. 8 | 6.68 | 10 | 72.1 | 7 | 60.50 | 14 | 82.9 | 13 |
| 18 | 6.58 | 13 | 72.8 | 5 | 60.36 | 17 | 84.2 | 10 |
| 28 | 6.45 | 15 | 73.3 | 4 | 60.19 | 19 | 85.2 | 6 |
| Sept. 7 | 6.30 | 16 | 73.7 | 1 | 60.00 | 21 | 85.8 | 3 |
| 17 | 6.14 | 17 | 73.8 | 1 | 59.79 | 21 | 86.1 | 2 |
| 27 | 5.97 | 17 | 73.7 | 3 | 59.58 | 21 | 85.9 | 5 |
| Okt. 7 | 5.80 | 15 | 73.4 | 5 | 59.37 | 19 | 85.4 | 10 |
| 17 | 5.65 | 12 | 72.9 | 7 | 59.18 | 16 | 84.4 | 13 |
| 27 | 5.53 | 9 | 72.2 | 10 | 59.02 | 14 | 83.1 | 17 |
| Nov. 6 | 5.44 | 5 | 71.2 | 11 | 58.88 | 9 | 81.4 | 21 |
| 16 | 5.39 | 1 | 70.1 | 14 | 58.79 | 5 | 79.3 | 24 |
| 26 | 5.38 | 4 | 68.7 | 15 | 58.74 | 1 | 76.9 | 27 |
| Dez. 6 | 5.42 | 8 | 67.2 | 17 | 58.75 | 5 | 74.2 | 28 |
| 16 | 5.50 | 15 | 65.5 | 20 | 58.80 | 12 | 71.4 | 32 |
| 26 | 17 5.65 | 18 | 63.5 | 19 | 18 58.92 | 15 | 68.2 | 29 |
| 36 | 5.83 | | 61.6 | | 59.07 | | 65.3 | |
| Mittl. Ort | 4.52 | | 73.4 | | 58.47 | | 79.7 | |
| | 665) | | | | 667) | | | |

| 1911 | ψ Drac. austr. 4^m.7. | | | | ξ Draconis. 3^m.6. | | | | ϑ Herculis. 3^m.8. | | | | 35 Draconis. 5^m.1. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. + | |
| | 17^h 43^m | | 72° 11′ | | 17^h 51^m | | 56° 52′ | | 17^h 53^m | | 37° 15′ | | 17^h 53^m | | 76° 58′ | |
| Jan. 0 | 27.11 s | 22 | 23.6 ″ | 36 | 56.71 s | 17 | 61.1 ″ | 36 | 9.87 s | 17 | 33.3 ″ | 32 | 20.64 s | 21 | 21.0 ″ | 36 |
| 10 | 27.33 | 35 | 20.0 | 34 | 56.88 | 24 | 57.5 | 34 | 10.04 | 21 | 30.1 | 31 | 20.85 | 38 | 17.4 | 34 |
| 20 | 27.68 | 46 | 16.6 | 31 | 57.12 | 30 | 54.1 | 31 | 10.25 | 25 | 27.0 | 28 | 21.23 | 55 | 14.0 | 31 |
| 30 | 28.14 | 56 | 13.5 | 26 | 57.42 | 36 | 51.0 | 27 | 10.50 | 28 | 24.2 | 24 | 21.78 | 70 | 10.9 | 27 |
| Febr. 9 | 28.70 | 65 | 10.9 | 21 | 57.78 | 39 | 48.3 | 22 | 10.78 | 31 | 21.8 | 20 | 22.48 | 82 | 8.2 | 21 |
| 19 | 29.35 | 71 | 8.8 | 15 | 58.17 | 43 | 46.1 | 16 | 11.09 | 32 | 19.8 | 14 | 23.30 | 91 | 6.1 | 16 |
| März 1 | 30.06 | 74 | 7.3 | 9 | 58.60 | 45 | 44.5 | 9 | 11.41 | 34 | 18.4 | 9 | 24.21 | 97 | 4.5 | 9 |
| 11 | 30.80 | 75 | 6.4 | 1 | 59.05 | 45 | 43.6 | 3 | 11.75 | 34 | 17.5 | 3 | 25.18 | 99 | 3.6 | 3 |
| 21 | 31.55 | 73 | 6.3 | 5 | 59.50 | 45 | 43.3 | 4 | 12.09 | 33 | 17.2 | 3 | 26.17 | 98 | 3.3 | 4 |
| 31 | 32.28 | 70 | 6.8 | 11 | 59.95 | 43 | 43.7 | 10 | 12.42 | 33 | 17.5 | 9 | 27.15 | 93 | 3.7 | 10 |
| April 10 | 32.98 | 64 | 7.9 | 18 | 60.38 | 40 | 44.7 | 17 | 12.75 | 31 | 18.4 | 14 | 28.08 | 86 | 4.7 | 17 |
| 20 | 33.62 | 56 | 9.7 | 22 | 60.78 | 37 | 46.4 | 21 | 13.06 | 29 | 19.8 | 19 | 28.94 | 75 | 6.4 | 21 |
| 30 | 34.18 | 47 | 11.9 | 26 | 61.15 | 32 | 48.5 | 25 | 13.35 | 26 | 21.7 | 23 | 29.69 | 63 | 8.5 | 25 |
| Mai 10 | 34.65 | 36 | 14.5 | 29 | 61.47 | 27 | 51.0 | 29 | 13.61 | 22 | 24.0 | 25 | 30.32 | 48 | 11.0 | 29 |
| 20 | 35.01 | 25 | 17.4 | 32 | 61.74 | 21 | 53.9 | 32 | 13.83 | 19 | 26.5 | 28 | 30.80 | 33 | 13.9 | 31 |
| 30 | 35.26 | 13 | 20.6 | 33 | 61.95 | 14 | 57.1 | 32 | 14.02 | 15 | 29.3 | 29 | 31.13 | 17 | 17.0 | 33 |
| Juni 9 | 35.39 | 0 | 23.9 | 33 | 62.09 | 8 | 60.3 | 33 | 14.17 | 11 | 32.2 | 29 | 31.30 | 0 | 20.3 | 33 |
| 19 | 35.39 | 11 | 27.2 | 32 | 62.17 | 1 | 63.6 | 33 | 14.28 | 6 | 35.1 | 28 | 31.30 | 17 | 23.6 | 33 |
| 29 | 35.28 | 24 | 30.4 | 31 | 62.18 | 6 | 66.9 | 31 | 14.34 | 1 | 37.9 | 28 | 31.13 | 33 | 26.9 | 31 |
| Juli 9 | 35.04 | 35 | 33.5 | 28 | 62.12 | 13 | 70.0 | 29 | 14.35 | 4 | 40.7 | 25 | 30.80 | 48 | 30.0 | 29 |
| 19 | 34.69 | 46 | 36.3 | 26 | 61.99 | 18 | 72.9 | 26 | 14.31 | 8 | 43.2 | 23 | 30.32 | 63 | 32.9 | 25 |
| 29 | 34.23 | 55 | 38.9 | 21 | 61.81 | 25 | 75.5 | 22 | 14.23 | 13 | 45.5 | 20 | 29.69 | 76 | 35.4 | 23 |
| Aug. 8 | 33.68 | 62 | 41.0 | 17 | 61.56 | 30 | 77.7 | 19 | 14.10 | 16 | 47.5 | 16 | 28.93 | 86 | 37.7 | 19 |
| 18 | 33.06 | 69 | 42.7 | 13 | 61.26 | 34 | 79.6 | 14 | 13.94 | 20 | 49.1 | 13 | 28.07 | 95 | 39.6 | 14 |
| 28 | 32.37 | 74 | 44.0 | 8 | 60.92 | 37 | 81.0 | 9 | 13.74 | 23 | 50.4 | 8 | 27.12 | 102 | 41.0 | 9 |
| Sept. 7 | 31.63 | 77 | 44.8 | 3 | 60.55 | 40 | 81.9 | 5 | 13.51 | 24 | 51.2 | 4 | 26.10 | 107 | 41.9 | 5 |
| 17 | 30.86 | 78 | 45.1 | 2 | 60.15 | 40 | 82.4 | 1 | 13.27 | 24 | 51.6 | 0 | 25.03 | 108 | 42.4 | 1 |
| 27 | 30.08 | 77 | 44.9 | 8 | 59.75 | 40 | 82.3 | 7 | 13.03 | 25 | 51.6 | 5 | 23.95 | 108 | 42.3 | 6 |
| Okt. 7 | 29.31 | 74 | 44.1 | 13 | 59.35 | 37 | 81.6 | 11 | 12.78 | 23 | 51.1 | 10 | 22.87 | 104 | 41.7 | 11 |
| 17 | 28.57 | 69 | 42.8 | 18 | 58.98 | 35 | 80.5 | 16 | 12.55 | 20 | 50.1 | 14 | 21.83 | 98 | 40.6 | 16 |
| 27 | 27.88 | 61 | 41.0 | 22 | 58.63 | 31 | 78.9 | 21 | 12.35 | 17 | 48.7 | 18 | 20.85 | 89 | 39.0 | 21 |
| Nov. 6 | 27.27 | 52 | 38.8 | 27 | 58.32 | 25 | 76.8 | 26 | 12.18 | 13 | 46.9 | 23 | 19.96 | 77 | 36.9 | 26 |
| 16 | 26.75 | 41 | 36.1 | 31 | 58.07 | 19 | 74.2 | 29 | 12.05 | 8 | 44.6 | 25 | 19.19 | 63 | 34.3 | 29 |
| 26 | 26.34 | 28 | 33.0 | 34 | 57.88 | 11 | 71.3 | 33 | 11.97 | 3 | 42.1 | 29 | 18.56 | 48 | 31.4 | 32 |
| Dez. 6 | 26.06 | 15 | 29.6 | 36 | 57.77 | 3 | 68.0 | 35 | 11.94 | 2 | 39.2 | 31 | 18.08 | 29 | 28.2 | 35 |
| 16 | 25.91 | 1 | 26.0 | 40 | 57.74 | 5 | 64.5 | 40 | 11.96 | 9 | 36.1 | 35 | 17.79 | 10 | 24.7 | 40 |
| 26 | [18] 25.90 | 14 | 22.0 | 37 | [20] 57.79 | 13 | 60.5 | 36 | [20] 12.05 | 14 | 32.6 | 33 | [20] 17.69 | 10 | 20.7 | 36 |
| 36 | 26.04 | | 18.3 | | 57.92 | | 56.9 | | 12.19 | | 29.3 | | 17.79 | | 17.1 | |
| Mittl. Ort | 31.11 | | 34.0 | | 59.38 | | 70.8 | | 12.03 | | 42.4 | | 25.89 | | 30.7 | |
| | 670) | | | | 671) | | | | 672) | | | | 675) | | | |

| 1911 | ν Ophiuchi. 3ᵐ.4. AR. | Diff. | Dekl. − | Diff. | γ Draconis. 2ᵐ.3. AR. | Diff. | Dekl. + | Diff. | 67 Ophiuchi. 4ᵐ.0. AR. | Diff. | Dekl. + | Diff. | γ Sagittarii. 3ᵐ.0. AR. | Diff. | Dekl. − | Diff. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $17^h 54^m$ | | 9° 45′ | | $17^h 54^m$ | | 51° 29′ | | $17^h 56^m$ | | 2° 55′ | | $18^h 0^m$ | | 30° 25′ | |
| Jan. 0 | 5.44 | 19 | 54.6 | 10 | 29.88 | 16 | 46.8 | 36 | 9.19 | 18 | 59.2 | 17 | 2.92 | 22 | 38.9 | 2 |
| 10 | 5.63 | 23 | 55.6 | 10 | 30.04 | 23 | 43.2 | 33 | 9.37 | 21 | 57.5 | 17 | 3.14 | 26 | 38.7 | 2 |
| 20 | 5.86 | 26 | 56.6 | 10 | 30.27 | 27 | 39.9 | 31 | 9.58 | 24 | 55.8 | 16 | 3.40 | 28 | 38.5 | 1 |
| 30 | 6.12 | 28 | 57.6 | 9 | 30.54 | 32 | 36.8 | 27 | 9.82 | 27 | 54.2 | 14 | 3.68 | 32 | 38.4 | 1 |
| Febr. 9 | 6.40 | 29 | 58.5 | 7 | 30.86 | 36 | 34.1 | 21 | 10.09 | 28 | 52.8 | 11 | 4.00 | 33 | 38.3 | 0 |
| 19 | 6.69 | 30 | 59.2 | 6 | 31.22 | 39 | 32.0 | 16 | 10.37 | 29 | 51.7 | 9 | 4.33 | 34 | 38.3 | 1 |
| März 1 | 6.99 | 31 | 59.8 | 4 | 31.61 | 40 | 30.4 | 9 | 10.66 | 29 | 50.8 | 5 | 4.67 | 35 | 38.4 | 0 |
| 11 | 7.30 | 31 | 60.2 | 2 | 32.01 | 41 | 29.5 | 3 | 10.95 | 30 | 50.3 | 2 | 5.02 | 36 | 38.4 | 1 |
| 21 | 7.61 | 30 | 60.4 | 0 | 32.42 | 40 | 29.2 | 3 | 11.25 | 30 | 50.1 | 1 | 5.38 | 35 | 38.5 | 0 |
| 31 | 7.91 | 30 | 60.4 | 3 | 32.82 | 40 | 29.5 | 10 | 11.55 | 29 | 50.2 | 4 | 5.73 | 34 | 38.5 | 1 |
| April 10 | 8.21 | 29 | 60.1 | 4 | 33.22 | 36 | 30.5 | 16 | 11.84 | 28 | 50.6 | 8 | 6.07 | 34 | 38.6 | 1 |
| 20 | 8.50 | 28 | 59.7 | 5 | 33.58 | 34 | 32.1 | 20 | 12.12 | 27 | 51.4 | 10 | 6.41 | 32 | 38.7 | 2 |
| 30 | 8.78 | 26 | 59.2 | 7 | 33.92 | 30 | 34.1 | 25 | 12.39 | 25 | 52.4 | 11 | 6.73 | 30 | 38.9 | 2 |
| Mai 10 | 9.04 | 23 | 58.5 | 7 | 34.22 | 25 | 36.6 | 28 | 12.64 | 23 | 53.5 | 14 | 7.03 | 28 | 39.1 | 2 |
| 20 | 9.27 | 22 | 57.8 | 8 | 34.47 | 20 | 39.4 | 31 | 12.87 | 20 | 54.9 | 15 | 7.31 | 25 | 39.3 | 2 |
| 30 | 9.49 | 18 | 57.0 | 8 | 34.67 | 15 | 42.5 | 32 | 13.07 | 17 | 56.4 | 14 | 7.56 | 22 | 39.5 | 4 |
| Juni 9 | 9.67 | 14 | 56.2 | 8 | 34.82 | 9 | 45.7 | 32 | 13.24 | 14 | 57.8 | 15 | 7.78 | 18 | 39.9 | 4 |
| 19 | 9.81 | 11 | 55.4 | 7 | 34.91 | 3 | 48.9 | 32 | 13.38 | 10 | 59.3 | 14 | 7.96 | 13 | 40.3 | 5 |
| 29 | 9.92 | 7 | 54.7 | 7 | 34.94 | 3 | 52.1 | 30 | 13.48 | 6 | 60.7 | 14 | 8.09 | 9 | 40.8 | 5 |
| Juli 9 | 9.99 | 3 | 54.0 | 5 | 34.91 | 9 | 55.1 | 29 | 13.54 | 2 | 62.1 | 12 | 8.18 | 4 | 41.3 | 6 |
| 19 | 10.02 | 1 | 53.5 | 5 | 34.82 | 14 | 58.0 | 25 | 13.56 | 2 | 63.3 | 11 | 8.22 | 0 | 41.9 | 5 |
| 29 | 10.01 | 5 | 53.0 | 4 | 34.68 | 20 | 60.5 | 23 | 13.54 | 6 | 64.4 | 9 | 8.22 | 5 | 42.4 | 6 |
| Aug. 8 | 9.96 | 9 | 52.6 | 3 | 34.48 | 25 | 62.8 | 18 | 13.48 | 9 | 65.3 | 7 | 8.17 | 10 | 43.0 | 5 |
| 18 | 9.87 | 12 | 52.3 | 2 | 34.23 | 28 | 64.6 | 14 | 13.39 | 12 | 66.0 | 6 | 8.07 | 13 | 43.5 | 4 |
| 28 | 9.75 | 14 | 52.1 | 1 | 33.95 | 32 | 66.0 | 9 | 13.27 | 15 | 66.6 | 3 | 7.94 | 15 | 43.9 | 3 |
| Sept. 7 | 9.61 | 16 | 52.0 | 1 | 33.63 | 33 | 66.9 | 5 | 13.12 | 16 | 66.9 | 2 | 7.79 | 18 | 44.2 | 2 |
| 17 | 9.45 | 16 | 51.9 | 1 | 33.30 | 34 | 67.4 | 0 | 12.96 | 17 | 67.1 | 0 | 7.61 | 19 | 44.4 | 1 |
| 27 | 9.29 | 16 | 52.0 | 1 | 32.96 | 34 | 67.4 | 6 | 12.79 | 16 | 67.1 | 2 | 7.42 | 18 | 44.5 | 1 |
| Okt. 7 | 9.13 | 15 | 52.1 | 2 | 32.62 | 33 | 66.8 | 11 | 12.63 | 16 | 66.9 | 5 | 7.24 | 17 | 44.4 | 2 |
| 17 | 8.98 | 13 | 52.3 | 3 | 32.29 | 29 | 65.7 | 15 | 12.47 | 13 | 66.4 | 6 | 7.07 | 14 | 44.2 | 3 |
| 27 | 8.85 | 9 | 52.6 | 4 | 32.00 | 26 | 64.2 | 21 | 12.34 | 9 | 65.8 | 8 | 6.93 | 11 | 43.9 | 4 |
| Nov. 6 | 8.76 | 6 | 53.0 | 5 | 31.74 | 20 | 62.1 | 24 | 12.25 | 7 | 65.0 | 11 | 6.82 | 6 | 43.5 | 5 |
| 16 | 8.70 | 1 | 53.5 | 6 | 31.54 | 15 | 59.7 | 29 | 12.18 | 2 | 63.9 | 12 | 6.76 | 2 | 43.0 | 5 |
| 26 | 8.69 | 4 | 54.1 | 7 | 31.39 | 9 | 56.8 | 32 | 12.16 | 3 | 62.7 | 14 | 6.74 | 4 | 42.5 | 5 |
| Dez. 6 | 8.73 | 9 | 54.8 | 8 | 31.30 | 1 | 53.6 | 34 | 12.19 | 7 | 61.3 | 16 | 6.78 | 9 | 42.0 | 5 |
| 16 | 8.82 | 14 | 55.6 | 10 | 31.29 | 6 | 50.2 | 39 | 12.26 | 13 | 59.7 | 18 | 6.87 | 16 | 41.5 | 4 |
| 26 | 21 8.96 | 18 | 56.6 | 10 | 21 31.35 | 13 | 46.3 | 36 | 21 12.39 | 16 | 57.9 | 17 | 22 7.03 | 20 | 41.1 | 3 |
| 36 | 9.14 | | 57.6 | | 31.48 | | 42.7 | | 12.55 | | 56.2 | | 7.23 | | 40.8 | |
| Mittl. Ort | 7.58 | | 48.2 | | 32.35 | | 56.3 | | 11.24 | | 66.5 | | 5.39 | | 33.5 | |
| | 673) | | | | 676) | | | | 677) | | | | 679) | | | |

| 1911 | 72 Ophiuchi. 3ᵐ.6. AR. | Δ | Dekl. + | Δ | o Herculis. 3ᵐ.8. AR. | Δ | Dekl. + | Δ | μ Sagittarii. 3ᵐ.9. AR. | Δ | Dekl. − | Δ | η Serpentis. 3ᵐ.2. AR. | Δ | Dekl. − | Δ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $18^h\ 3^m$ | | 9° 32′ | | $18^h\ 4^m$ | | 28° 44′ | | $18^h\ 8^m$ | | 21° 4′ | | $18^h\ 16^m$ | | 2° 55′ | |
| Jan. 0 | 5.76 | 17 | 54.1 | 21 | 2.14 | 15 | 50.1 | 29 | 24.15 | 19 | 65.0 | 2 | 40.16 | 17 | 29.0 | 14 |
| 10 | 5.93 | 20 | 52.0 | 20 | 2.29 | 20 | 47.2 | 28 | 24.34 | 23 | 65.2 | 3 | 40.33 | 20 | 30.4 | 13 |
| 20 | 6.13 | 23 | 50.0 | 18 | 2.49 | 23 | 44.4 | 26 | 24.57 | 26 | 65.5 | 3 | 40.53 | 23 | 31.7 | 13 |
| 30 | 6.36 | 26 | 48.2 | 16 | 2.72 | 26 | 41.8 | 23 | 24.83 | 29 | 65.8 | 3 | 40.76 | 25 | 33.0 | 11 |
| Febr. 9 | 6.62 | 27 | 46.6 | 14 | 2.98 | 29 | 39.5 | 18 | 25.12 | 30 | 66.1 | 3 | 41.01 | 27 | 34.1 | 9 |
| 19 | 6.89 | 29 | 45.2 | 10 | 3.27 | 30 | 37.7 | 14 | 25.42 | 31 | 66.4 | 2 | 41.28 | 29 | 35.0 | 7 |
| März 1 | 7.18 | 29 | 44.2 | 6 | 3.57 | 31 | 36.3 | 9 | 25.73 | 32 | 66.6 | 1 | 41.57 | 29 | 35.7 | 4 |
| 11 | 7.47 | 30 | 43.6 | 3 | 3.88 | 32 | 35.4 | 3 | 26.05 | 33 | 66.7 | 1 | 41.86 | 30 | 36.1 | 2 |
| 21 | 7.77 | 30 | 43.3 | 2 | 4.20 | 32 | 35.1 | 2 | 26.38 | 33 | 66.8 | 1 | 42.16 | 30 | 36.3 | 1 |
| 31 | 8.07 | 29 | 43.5 | 5 | 4.52 | 31 | 35.3 | 8 | 26.71 | 32 | 66.7 | 1 | 42.46 | 30 | 36.2 | 4 |
| April 10 | 8.36 | 28 | 44.0 | 9 | 4.83 | 29 | 36.1 | 12 | 27.03 | 31 | 66.6 | 2 | 42.76 | 29 | 35.8 | 6 |
| 20 | 8.64 | 27 | 44.9 | 12 | 5.12 | 29 | 37.3 | 16 | 27.34 | 31 | 66.4 | 3 | 43.05 | 28 | 35.2 | 9 |
| 30 | 8.91 | 25 | 46.1 | 14 | 5.41 | 25 | 38.9 | 21 | 27.65 | 28 | 66.1 | 3 | 43.33 | 26 | 34.3 | 10 |
| Mai 10 | 9.16 | 23 | 47.5 | 17 | 5.66 | 23 | 41.0 | 23 | 27.93 | 27 | 65.8 | 3 | 43.59 | 25 | 33.3 | 11 |
| 20 | 9.39 | 21 | 49.2 | 18 | 5.89 | 20 | 43.3 | 25 | 28.20 | 24 | 65.5 | 2 | 43.84 | 22 | 32.2 | 12 |
| 30 | 9.60 | 17 | 51.0 | 18 | 6.09 | 17 | 45.8 | 26 | 28.44 | 20 | 65.3 | 2 | 44.06 | 19 | 31.0 | 13 |
| Juni 9 | 9.77 | 14 | 52.8 | 18 | 6.26 | 12 | 48.4 | 27 | 28.64 | 18 | 65.1 | 2 | 44.25 | 16 | 29.7 | 12 |
| 19 | 9.91 | 10 | 54.6 | 18 | 6.38 | 8 | 51.1 | 26 | 28.82 | 13 | 64.9 | 1 | 44.41 | 12 | 28.5 | 11 |
| 29 | 10.01 | 6 | 56.4 | 17 | 6.46 | 4 | 53.7 | 25 | 28.95 | 9 | 64.8 | 1 | 44.53 | 9 | 27.4 | 11 |
| Juli 9 | 10.07 | 2 | 58.1 | 16 | 6.50 | 1 | 56.2 | 23 | 29.04 | 5 | 64.7 | 0 | 44.62 | 4 | 26.3 | 10 |
| 19 | 10.09 | 2 | 59.7 | 14 | 6.49 | 4 | 58.5 | 21 | 29.09 | 0 | 64.7 | 1 | 44.66 | 0 | 25.3 | 8 |
| 29 | 10.07 | 6 | 61.1 | 12 | 6.45 | 10 | 60.6 | 19 | 29.09 | 4 | 64.8 | 2 | 44.66 | 4 | 24.5 | 7 |
| Aug. 8 | 10.01 | 9 | 62.3 | 10 | 6.35 | 13 | 62.5 | 16 | 29.05 | 8 | 65.0 | 1 | 44.62 | 7 | 23.8 | 6 |
| 18 | 9.92 | 13 | 63.3 | 7 | 6.22 | 16 | 64.1 | 12 | 28.97 | 11 | 65.1 | 2 | 44.55 | 11 | 23.2 | 4 |
| 28 | 9.79 | 15 | 64.0 | 5 | 6.06 | 19 | 65.3 | 8 | 28.86 | 15 | 65.3 | 1 | 44.44 | 14 | 22.8 | 3 |
| Sept. 7 | 9.64 | 17 | 64.5 | 3 | 5.87 | 21 | 66.1 | 5 | 28.71 | 16 | 65.4 | 1 | 44.30 | 16 | 22.5 | 1 |
| 17 | 9.47 | 17 | 64.8 | 0 | 5.66 | 21 | 66.6 | 0 | 28.55 | 17 | 65.5 | 1 | 44.14 | 16 | 22.4 | 0 |
| 27 | 9.30 | 18 | 64.8 | 2 | 5.45 | 21 | 66.6 | 4 | 28.38 | 17 | 65.6 | 0 | 43.98 | 17 | 22.4 | 2 |
| Okt. 7 | 9.12 | 16 | 64.6 | 5 | 5.24 | 20 | 66.2 | 7 | 28.21 | 15 | 65.6 | 0 | 43.81 | 15 | 22.6 | 3 |
| 17 | 8.96 | 13 | 64.1 | 8 | 5.04 | 18 | 65.5 | 12 | 28.06 | 14 | 65.6 | 0 | 43.66 | 14 | 22.9 | 5 |
| 27 | 8.83 | 11 | 63.3 | 10 | 4.86 | 15 | 64.3 | 15 | 27.92 | 10 | 65.6 | 0 | 43.52 | 11 | 23.4 | 6 |
| Nov. 6 | 8.72 | 8 | 62.3 | 13 | 4.71 | 12 | 62.8 | 19 | 27.82 | 7 | 65.6 | 1 | 43.41 | 7 | 24.0 | 8 |
| 16 | 8.64 | 3 | 61.0 | 15 | 4.59 | 6 | 60.9 | 23 | 27.75 | 2 | 65.5 | 0 | 43.34 | 3 | 24.8 | 9 |
| 26 | 8.61 | 1 | 59.5 | 17 | 4.53 | 2 | 58.6 | 25 | 27.73 | 3 | 65.5 | 1 | 43.31 | 1 | 25.7 | 10 |
| Dez. 6 | 8.62 | 6 | 57.8 | 19 | 4.51 | 3 | 56.1 | 27 | 27.76 | 8 | 65.6 | 1 | 43.32 | 5 | 26.7 | 12 |
| 16 | 8.68 | 11 | 55.9 | 22 | 4.54 | 9 | 53.4 | 32 | 27.84 | 14 | 65.7 | 1 | 43.37 | 10 | 27.9 | 13 |
| 26 | 23 8.79 | 15 | 53.7 | 21 | 23 4.63 | 13 | 50.2 | 29 | 24 27.98 | 18 | 65.8 | 2 | 43.47 | 16 | 29.2 | 14 |
| 36 | 8.94 | | 51.6 | | 4.76 | | 47.3 | | 28.16 | | 66.0 | | 26 43.63 | | 30.6 | |
| Mittl. Ort | 7.79 | | 61.8 | | 4.23 | | 58.6 | | 26.43 | | 58.5 | | 42.26 | | 21.6 | |
| | 680) | | | | 681) | | | | 682) | | | | 688) | | | |

| 1911 | ε Sagittarii. $1^m.9$. AR. | | Dekl. − | | 109 Herculis. $3^m.9$. AR. | | Dekl. + | | α Telescopii. $3^m.7$. AR. | | Dekl. − | | b Draconis. $5^m.1$. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $18^h 18^m$ | | 34° 25' | | $18^h 19^m$ | | 21° 43' | | $18^h 20^m$ | | 46° 1' | | $18^h 22^m$ | | 58° 44' | |
| | s | | " | | s | | " | | s | | " | | s | | " | |
| Jan. 0 | 13.30 | 21 | 45.1 | 6 | 52.24 | 14 | 34.8 | 27 | 19.49 | 23 | 11.7 | 13 | 33.77 | 11 | 48.0 | 37 |
| 10 | 13.51 | 25 | 44.5 | 5 | 52.38 | 18 | 32.1 | 25 | 19.72 | 28 | 10.4 | 12 | 33.88 | 19 | 44.3 | 35 |
| 20 | 13.76 | 29 | 44.0 | 5 | 52.56 | 22 | 29.6 | 23 | 20.00 | 33 | 9.2 | 11 | 34.07 | 26 | 40.8 | 32 |
| 30 | 14.05 | 31 | 43.5 | 4 | 52.78 | 24 | 27.3 | 21 | 20.33 | 36 | 8.1 | 9 | 34.33 | 32 | 37.6 | 30 |
| Febr. 9 | 14.36 | 33 | 43.1 | 3 | 53.02 | 27 | 25.2 | 18 | 20.69 | 39 | 7.2 | 8 | 34.65 | 38 | 34.6 | 24 |
| 19 | 14.69 | 35 | 42.8 | 2 | 53.29 | 29 | 23.4 | 13 | 21.08 | 41 | 6.4 | 6 | 35.03 | 42 | 32.2 | 19 |
| März 1 | 15.04 | 36 | 42.6 | 2 | 53.58 | 29 | 22.1 | 9 | 21.49 | 42 | 5.8 | 4 | 35.45 | 44 | 30.3 | 12 |
| 11 | 15.40 | 37 | 42.4 | 2 | 53.87 | 31 | 21.2 | 3 | 21.91 | 43 | 5.4 | 3 | 35.89 | 47 | 29.1 | 7 |
| 21 | 15.77 | 37 | 42.2 | 1 | 54.18 | 30 | 20.9 | 1 | 22.34 | 43 | 5.1 | 1 | 36.36 | 48 | 28.4 | 1 |
| 31 | 16.14 | 36 | 42.1 | 1 | 54.48 | 31 | 21.0 | 6 | 22.77 | 43 | 5.0 | 1 | 36.84 | 45 | 28.5 | 7 |
| April 10 | 16.50 | 36 | 42.0 | 1 | 54.79 | 29 | 21.6 | 11 | 23.20 | 42 | 5.1 | 2 | 37.29 | 44 | 29.2 | 13 |
| 20 | 16.86 | 35 | 42.1 | 1 | 55.08 | 28 | 22.7 | 15 | 23.62 | 40 | 5.3 | 4 | 37.73 | 41 | 30.5 | 19 |
| 30 | 17.21 | 33 | 42.2 | 1 | 55.36 | 27 | 24.2 | 17 | 24.02 | 39 | 5.7 | 6 | 38.14 | 37 | 32.4 | 23 |
| Mai 10 | 17.54 | 30 | 42.3 | 3 | 55.63 | 24 | 25.9 | 21 | 24.41 | 35 | 6.3 | 7 | 38.51 | 32 | 34.7 | 28 |
| 20 | 17.84 | 28 | 42.6 | 4 | 55.87 | 22 | 28.0 | 23 | 24.76 | 32 | 7.0 | 9 | 38.83 | 26 | 37.5 | 31 |
| 30 | 18.12 | 24 | 43.0 | 4 | 56.09 | 18 | 30.3 | 24 | 25.08 | 28 | 7.9 | 11 | 39.09 | 20 | 40.6 | 32 |
| Juni 9 | 18.36 | 21 | 43.4 | 6 | 56.27 | 14 | 32.7 | 24 | 25.36 | 24 | 9.0 | 12 | 39.29 | 13 | 43.8 | 34 |
| 19 | 18.57 | 15 | 44.0 | 6 | 56.41 | 11 | 35.1 | 24 | 25.60 | 17 | 10.2 | 13 | 39.42 | 5 | 47.2 | 34 |
| 29 | 18.72 | 12 | 44.6 | 7 | 56.52 | 6 | 37.5 | 23 | 25.77 | 13 | 11.5 | 14 | 39.47 | 2 | 50.6 | 33 |
| Juli 9 | 18.84 | 6 | 45.3 | 8 | 56.58 | 2 | 39.8 | 21 | 25.90 | 7 | 12.9 | 13 | 39.45 | 9 | 53.9 | 31 |
| 19 | 18.90 | 1 | 46.1 | 8 | 56.60 | 2 | 41.9 | 20 | 25.97 | 1 | 14.2 | 14 | 39.36 | 16 | 57.0 | 29 |
| 29 | 18.91 | 4 | 46.9 | 8 | 56.58 | 7 | 43.9 | 17 | 25.98 | 6 | 15.6 | 13 | 39.20 | 23 | 59.9 | 25 |
| Aug. 8 | 18.87 | 9 | 47.7 | 7 | 56.51 | 10 | 45.6 | 15 | 25.92 | 10 | 16.9 | 12 | 38.97 | 28 | 62.4 | 22 |
| 18 | 18.78 | 12 | 48.4 | 6 | 56.41 | 14 | 47.1 | 12 | 25.82 | 16 | 18.1 | 10 | 38.69 | 34 | 64.6 | 19 |
| 28 | 18.66 | 16 | 49.0 | 5 | 56.27 | 16 | 48.3 | 8 | 25.66 | 19 | 19.1 | 8 | 38.35 | 38 | 66.5 | 13 |
| Sept. 7 | 18.50 | 18 | 49.5 | 4 | 56.11 | 18 | 49.1 | 5 | 25.47 | 22 | 19.9 | 6 | 37.97 | 41 | 67.8 | 9 |
| 17 | 18.32 | 20 | 49.9 | 2 | 55.93 | 20 | 49.6 | 2 | 25.25 | 24 | 20.5 | 2 | 37.56 | 43 | 68.7 | 4 |
| 27 | 18.12 | 19 | 50.1 | 0 | 55.73 | 19 | 49.8 | 2 | 25.01 | 24 | 20.7 | 0 | 37.13 | 43 | 69.1 | 2 |
| Okt. 7 | 17.93 | 19 | 50.1 | 1 | 55.54 | 19 | 49.6 | 6 | 24.77 | 23 | 20.7 | 3 | 36.70 | 42 | 68.9 | 7 |
| 17 | 17.74 | 16 | 50.0 | 4 | 55.35 | 17 | 49.0 | 9 | 24.54 | 20 | 20.4 | 6 | 36.28 | 39 | 68.2 | 12 |
| 27 | 17.58 | 13 | 49.6 | 4 | 55.18 | 14 | 48.1 | 13 | 24.34 | 16 | 19.8 | 9 | 35.89 | 36 | 67.0 | 17 |
| Nov. 6 | 17.45 | 8 | 49.2 | 6 | 55.04 | 10 | 46.8 | 16 | 24.18 | 11 | 18.9 | 10 | 35.53 | 31 | 65.3 | 22 |
| 16 | 17.37 | 3 | 48.6 | 7 | 54.94 | 7 | 45.2 | 19 | 24.07 | 5 | 17.9 | 13 | 35.22 | 24 | 63.1 | 27 |
| 26 | 17.34 | 1 | 47.9 | 7 | 54.87 | 2 | 43.3 | 22 | 24.02 | 1 | 16.6 | 13 | 34.98 | 18 | 60.4 | 30 |
| Dez. 6 | 17.35 | 8 | 47.2 | 8 | 54.85 | 3 | 41.1 | 24 | 24.03 | 7 | 15.3 | 14 | 34.80 | 10 | 57.4 | 33 |
| 16 | 17.43 | 13 | 46.4 | 7 | 54.88 | 7 | 38.7 | 25 | 24.10 | 14 | 13.9 | 14 | 34.70 | 2 | 54.1 | 35 |
| 26 | 17.56 | 20 | 45.7 | 7 | 54.95 | 14 | 36.2 | 29 | 24.24 | 22 | 12.5 | 15 | 34.68 | 7 | 50.6 | 39 |
| 36 | [26] 17.76 | | 45.0 | | [26] 55.09 | | 33.3 | | [27] 24.46 | | 11.0 | | [27] 34.75 | | 46.7 | |
| Mittl. Ort | 15.87 | | 38.7 | | 54.31 | | 42.8 | | 22.46 | | 5.5 | | 36.66 | | 56.0 | |
| | 689) | | | | 690) | | | | 691) | | | | 694) | | | |

| 1911 | χ Draconis. 3ᵐ.6. AR. | Δ | Dekl. + | Δ | ζ Pavonis. 4ᵐ.0. AR. | Δ | Dekl. − | Δ | α Lyrae*). 1ᵐ. AR. | Δ | Dekl. + | Δ | 110 Herculis. 4ᵐ.1. AR. | Δ | Dekl. + | Δ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 18ʰ 22ᵐ | | 72° 41′ | | 18ʰ 32ᵐ | | 71° 30′ | | 18ʰ 33ᵐ | | 38° 41′ | | 18ʰ 41ᵐ | | 20° 27′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | | s | | ″ | |
| Jan. 0 | 35.32 | 10 | 32.1 | 36 | 32.68 | 37 | 27.4 | 27 | 53.23 | 12 | 53.2 | 32 | 47.79 | 12 | 30.0 | 25 |
| 10 | 35.42 | 24 | 28.5 | 35 | 33.05 | 48 | 24.7 | 25 | 53.35 | 16 | 50.0 | 31 | 47.91 | 16 | 27.5 | 24 |
| 20 | 35.66 | 36 | 25.0 | 33 | 33.53 | 59 | 22.2 | 23 | 53.51 | 21 | 46.9 | 28 | 48.07 | 20 | 25.1 | 23 |
| 30 | 36.02 | 48 | 21.7 | 29 | 34.12 | 68 | 19.9 | 21 | 53.72 | 25 | 44.1 | 27 | 48.27 | 22 | 22.8 | 21 |
| Febr. 9 | 36.50 | 59 | 18.8 | 25 | 34.80 | 76 | 17.8 | 17 | 53.97 | 28 | 41.4 | 22 | 48.49 | 25 | 20.7 | 17 |
| 19 | 37.09 | 67 | 16.3 | 20 | 35.56 | 81 | 16.1 | 14 | 54.25 | 31 | 39.2 | 17 | 48.74 | 27 | 19.0 | 13 |
| März 1 | 37.76 | 72 | 14.3 | 13 | 36.37 | 85 | 14.7 | 10 | 54.56 | 32 | 37.5 | 11 | 49.01 | 29 | 17.7 | 9 |
| 11 | 38.48 | 76 | 13.0 | 6 | 37.22 | 88 | 13.7 | 7 | 54.88 | 34 | 36.4 | 6 | 49.30 | 29 | 16.8 | 5 |
| 21 | 39.24 | 77 | 12.4 | 0 | 38.10 | 89 | 13.0 | 2 | 55.22 | 35 | 35.8 | 1 | 49.59 | 31 | 16.3 | 1 |
| 31 | 40.01 | 75 | 12.4 | 6 | 38.99 | 88 | 12.8 | 1 | 55.57 | 34 | 35.9 | 6 | 49.90 | 30 | 16.4 | 5 |
| April 10 | 40.76 | 71 | 13.0 | 13 | 39.87 | 85 | 12.9 | 5 | 55.91 | 33 | 36.5 | 12 | 50.20 | 30 | 16.9 | 10 |
| 20 | 41.47 | 64 | 14.3 | 18 | 40.72 | 84 | 13.4 | 9 | 56.24 | 32 | 37.7 | 17 | 50.50 | 29 | 17.9 | 14 |
| 30 | 42.11 | 57 | 16.1 | 24 | 41.56 | 78 | 14.3 | 12 | 56.56 | 29 | 39.4 | 21 | 50.79 | 28 | 19.3 | 17 |
| Mai 10 | 42.68 | 48 | 18.5 | 27 | 42.34 | 71 | 15.5 | 16 | 56.85 | 27 | 41.5 | 25 | 51.07 | 26 | 21.0 | 20 |
| 20 | 43.16 | 36 | 21.2 | 30 | 43.05 | 64 | 17.1 | 19 | 57.12 | 23 | 44.0 | 28 | 51.33 | 23 | 23.0 | 22 |
| 30 | 43.52 | 25 | 24.2 | 33 | 43.69 | 55 | 19.0 | 21 | 57.35 | 19 | 46.8 | 29 | 51.56 | 20 | 25.2 | 24 |
| Juni 9 | 43.77 | 12 | 27.5 | 33 | 44.24 | 44 | 21.1 | 23 | 57.54 | 15 | 49.7 | 31 | 51.76 | 17 | 27.6 | 24 |
| 19 | 43.89 | 0 | 30.8 | 34 | 44.68 | 33 | 23.4 | 25 | 57.69 | 10 | 52.8 | 30 | 51.93 | 13 | 30.0 | 24 |
| 29 | 43.89 | 13 | 34.2 | 33 | 45.01 | 22 | 25.9 | 25 | 57.79 | 5 | 55.8 | 30 | 52.06 | 8 | 32.4 | 23 |
| Juli 9 | 43.76 | 26 | 37.5 | 31 | 45.23 | 8 | 28.4 | 26 | 57.84 | 0 | 58.8 | 28 | 52.14 | 4 | 34.7 | 22 |
| 19 | 43.50 | 37 | 40.6 | 30 | 45.31 | 4 | 31.0 | 25 | 57.84 | 5 | 61.6 | 26 | 52.18 | 0 | 36.9 | 20 |
| 29 | 43.13 | 48 | 43.6 | 26 | 45.27 | 17 | 33.5 | 23 | 57.79 | 10 | 64.2 | 23 | 52.18 | 4 | 38.9 | 18 |
| Aug. 8 | 42.65 | 57 | 46.2 | 22 | 45.10 | 28 | 35.8 | 21 | 57.69 | 14 | 66.5 | 20 | 52.14 | 9 | 40.7 | 16 |
| 18 | 42.08 | 66 | 48.4 | 19 | 44.82 | 38 | 37.9 | 19 | 57.55 | 18 | 68.5 | 17 | 52.05 | 12 | 42.3 | 13 |
| 28 | 41.42 | 72 | 50.3 | 13 | 44.44 | 47 | 39.8 | 14 | 57.37 | 21 | 70.2 | 12 | 51.93 | 15 | 43.6 | 9 |
| Sept. 7 | 40.70 | 77 | 51.6 | 9 | 43.97 | 53 | 41.2 | 10 | 57.16 | 24 | 71.4 | 9 | 51.78 | 18 | 44.5 | 7 |
| 17 | 39.93 | 80 | 52.5 | 5 | 43.44 | 57 | 42.2 | 5 | 56.92 | 25 | 72.3 | 4 | 51.60 | 18 | 45.2 | 3 |
| 27 | 39.13 | 80 | 53.0 | 2 | 42.87 | 59 | 42.7 | 0 | 56.67 | 26 | 72.7 | 1 | 51.42 | 20 | 45.5 | 1 |
| Okt. 7 | 38.33 | 79 | 52.8 | 6 | 42.28 | 56 | 42.7 | 5 | 56.41 | 24 | 72.6 | 5 | 51.22 | 18 | 45.4 | 4 |
| 17 | 37.54 | 76 | 52.2 | 12 | 41.72 | 52 | 42.2 | 10 | 56.17 | 23 | 72.1 | 10 | 51.04 | 17 | 45.0 | 7 |
| 27 | 36.78 | 70 | 51.0 | 17 | 41.20 | 45 | 41.2 | 14 | 55.94 | 20 | 71.1 | 15 | 50.87 | 15 | 44.3 | 11 |
| Nov. 6 | 36.08 | 62 | 49.3 | 23 | 40.75 | 36 | 39.8 | 19 | 55.74 | 17 | 69.6 | 19 | 50.72 | 12 | 43.2 | 15 |
| 16 | 35.46 | 52 | 47.0 | 27 | 40.39 | 25 | 37.9 | 22 | 55.57 | 12 | 67.7 | 23 | 50.60 | 8 | 41.7 | 17 |
| 26 | 34.94 | 40 | 44.3 | 30 | 40.14 | 11 | 35.7 | 25 | 55.45 | 7 | 65.4 | 26 | 50.52 | 4 | 40.0 | 20 |
| Dez. 6 | 34.54 | 28 | 41.3 | 34 | 40.03 | 3 | 33.2 | 26 | 55.38 | 2 | 62.8 | 29 | 50.48 | 1 | 38.0 | 22 |
| 16 | 34.26 | 14 | 37.9 | 35 | 40.06 | 16 | 30.6 | 26 | 55.36 | 3 | 59.9 | 31 | 50.49 | 5 | 35.8 | 24 |
| 26 | 34.12 | 0 | 34.4 | 40 | 40.22 | 33 | 28.0 | 29 | 55.39 | 9 | 56.8 | 34 | 50.54 | 11 | 33.4 | 27 |
| 36 | 27 34.12 | | 30.4 | | 29 40.55 | | 25.1 | | 30 55.48 | | 53.4 | | 31 50.65 | | 30.7 | |
| Mittl. Ort | 39.75 | | 40.0 | | 38.45 | | 20.8 | | 55.49 | | 61.0 | | 49.87 | | 37.8 | |
| | 695) | | | | 698) | | | | 699) | | | | 703) | | | |

*) Die jährliche Parallaxe ist bereits angebracht.

| 1911 | λ Pavonis. $4^m.3$. | | | | β Lyrae. $(3^m.3)$. | | | | σ Sagittarii. $2^m.1$. | | | | o Draconis. $4^m.6$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. − | | AR. | | Dekl. + | | AR. | | Dekl. − | | AR. | | Dekl. + | |
| | $18^h\ 43^m$ | | 62° 17′ | | $18^h\ 46^m$ | | 33° 15′ | | $18^h\ 49^m$ | | 26° 24′ | | $18^h\ 49^m$ | | 59° 16′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | | s | | ″ | |
| Jan. 0 | 1 54.27 | 28 | 34.1 | 25 | 1 45.43 | 11 | 24.7 | 33 | 2 42.47 | 17 | 37.6 | 3 | 2 50.33 | 6 | 39.3 | 38 |
| 10 | 54.55 | 33 | 31.6 | 22 | 45.54 | 15 | 21.4 | 29 | 42.64 | 20 | 37.3 | 2 | 50.39 | 14 | 35.5 | 35 |
| 20 | 54.88 | 41 | 29.4 | 21 | 45.69 | 19 | 18.5 | 28 | 42.84 | 23 | 37.1 | 2 | 50.53 | 21 | 32.0 | 34 |
| 30 | 55.29 | 47 | 27.3 | 18 | 45.88 | 22 | 15.7 | 25 | 43.07 | 26 | 36.9 | 3 | 50.74 | 28 | 28.6 | 30 |
| Febr. 9 | 55.76 | 52 | 25.5 | 16 | 46.10 | 26 | 13.2 | 21 | 43.33 | 29 | 36.6 | 2 | 51.02 | 35 | 25.6 | 27 |
| 19 | 56.28 | 56 | 23.9 | 14 | 46.36 | 29 | 11.1 | 17 | 43.62 | 30 | 36.4 | 3 | 51.37 | 39 | 22.9 | 21 |
| März 1 | 56.84 | 60 | 22.5 | 10 | 46.65 | 30 | 9.4 | 11 | 43.92 | 32 | 36.1 | 3 | 51.76 | 43 | 20.8 | 15 |
| 11 | 57.44 | 60 | 21.5 | 8 | 46.95 | 32 | 8.3 | 6 | 44.24 | 33 | 35.8 | 4 | 52.19 | 46 | 19.3 | 9 |
| 21 | 58.04 | 62 | 20.7 | 4 | 47.27 | 32 | 7.7 | 1 | 44.57 | 34 | 35.4 | 3 | 52.65 | 47 | 18.4 | 3 |
| 31 | 58.66 | 63 | 20.3 | 2 | 47.59 | 33 | 7.6 | — 5 | 44.91 | 34 | 35.1 | 5 | 53.12 | 48 | 18.1 | — 4 |
| April 10 | 59.29 | 61 | 20.1 | — 2 | 47.92 | 32 | 8.1 | 11 | 45.25 | 34 | 34.6 | 4 | 53.60 | 46 | 18.5 | 10 |
| 20 | 59.90 | 59 | 20.3 | 5 | 48.24 | 31 | 9.2 | 15 | 45.59 | 34 | 34.2 | 4 | 54.06 | 44 | 19.5 | 17 |
| 30 | 60.49 | 57 | 20.8 | 9 | 48.55 | 30 | 10.7 | 20 | 45.93 | 32 | 33.8 | 4 | 54.50 | 41 | 21.2 | 21 |
| Mai 10 | 61.06 | 53 | 21.7 | 11 | 48.85 | 27 | 12.7 | 23 | 46.25 | 30 | 33.4 | 3 | 54.91 | 36 | 23.3 | 26 |
| 20 | 61.59 | 48 | 22.8 | 14 | 49.12 | 24 | 15.0 | 26 | 46.55 | 28 | 33.1 | 3 | 55.27 | 30 | 25.9 | 30 |
| 30 | 62.07 | 42 | 24.2 | 16 | 49.36 | 20 | 17.6 | 28 | 46.83 | 26 | 32.8 | 2 | 55.57 | 24 | 28.9 | 31 |
| Juni 9 | 62.49 | 35 | 25.8 | 19 | 49.56 | 17 | 20.4 | 29 | 47.09 | 22 | 32.6 | 0 | 55.81 | 18 | 32.0 | 34 |
| 19 | 62.84 | 28 | 27.7 | 20 | 49.73 | 12 | 23.3 | 28 | 47.31 | 18 | 32.6 | 0 | 55.99 | 10 | 35.4 | 34 |
| 29 | 63.12 | 19 | 29.7 | 21 | 49.85 | 8 | 26.1 | 29 | 47.49 | 13 | 32.6 | 2 | 56.09 | 3 | 38.8 | 34 |
| Juli 9 | 63.31 | 11 | 31.8 | 22 | 49.93 | 2 | 29.0 | 27 | 47.62 | 9 | 32.8 | 3 | 56.12 | — 5 | 42.2 | 33 |
| 19 | 63.42 | 2 | 34.0 | 22 | 49.95 | — 2 | 31.7 | 25 | 47.71 | 4 | 33.1 | 3 | 56.07 | 12 | 45.5 | 31 |
| 29 | 63.44 | — 7 | 36.2 | 20 | 49.93 | 6 | 34.2 | 23 | 47.75 | 0 | 33.4 | 4 | 55.95 | 20 | 48.6 | 28 |
| Aug. 8 | 63.37 | 15 | 38.2 | 19 | 49.87 | 11 | 36.5 | 20 | 47.75 | 5 | 33.8 | 5 | 55.75 | 25 | 51.4 | 25 |
| 18 | 63.22 | 23 | 40.1 | 17 | 49.76 | 16 | 38.5 | 17 | 47.70 | 10 | 34.3 | 5 | 55.50 | 32 | 53.9 | 22 |
| 28 | 62.99 | 29 | 41.8 | 14 | 49.60 | 18 | 40.2 | 13 | 47.60 | 13 | 34.8 | 4 | 55.18 | 36 | 56.1 | 17 |
| Sept. 7 | 62.70 | 33 | 43.2 | 10 | 49.42 | 21 | 41.5 | 9 | 47.47 | 15 | 35.2 | 3 | 54.82 | 40 | 57.8 | 13 |
| 17 | 62.37 | 37 | 44.2 | 6 | 49.21 | 22 | 42.4 | 5 | 47.32 | 17 | 35.5 | 3 | 54.42 | 43 | 59.1 | 8 |
| 27 | 62.00 | 38 | 44.8 | 2 | 48.99 | 23 | 42.9 | 0 | 47.15 | 18 | 35.8 | 2 | 53.99 | 43 | 59.9 | 2 |
| Okt. 7 | 61.62 | 37 | 45.0 | — 3 | 48.76 | 23 | 42.9 | 3 | 46.97 | 17 | 36.0 | 1 | 53.56 | 43 | 60.1 | — 3 |
| 17 | 61.25 | 35 | 44.7 | 7 | 48.53 | 21 | 42.6 | 8 | 46.80 | 16 | 36.1 | 0 | 53.13 | 42 | 59.8 | 8 |
| 27 | 60.90 | 30 | 44.0 | 11 | 48.32 | 18 | 41.8 | 13 | 46.64 | 13 | 36.1 | 0 | 52.71 | 38 | 59.0 | 13 |
| Nov. 6 | 60.60 | 23 | 42.9 | 15 | 48.14 | 16 | 40.5 | 17 | 46.51 | 9 | 36.1 | 2 | 52.33 | 34 | 57.7 | 19 |
| 16 | 60.37 | 15 | 41.4 | 18 | 47.98 | 12 | 38.8 | 20 | 46.42 | 6 | 35.9 | 2 | 51.99 | 29 | 55.8 | 23 |
| 26 | 60.22 | 7 | 39.6 | 21 | 47.86 | 7 | 36.8 | 23 | 46.36 | 1 | 35.7 | 3 | 51.70 | 22 | 53.5 | 28 |
| Dez. 6 | 60.15 | — 2 | 37.5 | 22 | 47.79 | 2 | 34.5 | 27 | 46.35 | — 4 | 35.4 | 3 | 51.48 | 15 | 50.7 | 31 |
| 16 | 60.17 | 12 | 35.3 | 23 | 47.77 | — 3 | 31.8 | 29 | 46.39 | 9 | 35.1 | 3 | 51.33 | 7 | 47.6 | 33 |
| 26 | 60.29 | 23 | 33.0 | 26 | 47.80 | 8 | 28.9 | 32 | 46.48 | 15 | 34.8 | 3 | 51.26 | — 1 | 44.3 | 39 |
| 36 | 32 60.52 | | 30.4 | | 33 47.88 | | 25.7 | | 33 46.63 | | 34.5 | | 33 51.27 | | 40.4 | |
| Mittl. Ort | 58.38 | | 26.0 | | 47.63 | | 31.8 | | 44.83 | | 29.1 | | 53.34 | | 45.5 | |
| | 704) | | | | 705) | | | | 706) | | | | 707) | | | |

| 1911 | λ Telescopii. 5ᵐ.1. AR. | | Dekl. − | | ϑ Serpentis pr. 4ᵐ.5. AR. | | Dekl. + | | *R* Lyrae. (4ᵐ.5). AR. | | Dekl. + | | γ Lyrae. 3ᵐ.2. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 18ʰ 51ᵐ | | 53° 3′ | | 18ʰ 51ᵐ | | 4° 4′ | | 18ʰ 52ᵐ | | 43° 49′ | | 18ʰ 55ᵐ | | 32° 33′ | |
| Jan. 0 | 17.38 | 23 | 29.8 | 21 | 45.63 | 13 | 65.5 | 18 | 35.23 | 9 | 35.6 | 36 | 34.64 | 10 | 54.1 | 32 |
| 10 | 17.61 | 26 | 27.7 | 17 | 45.76 | 16 | 63.7 | 16 | 35.32 | 13 | 32.0 | 33 | 34.74 | 14 | 50.9 | 29 |
| 20 | 17.87 | 32 | 26.0 | 17 | 45.92 | 20 | 62.1 | 15 | 35.45 | 19 | 28.7 | 31 | 34.88 | 18 | 48.0 | 28 |
| 30 | 18.19 | 37 | 24.3 | 16 | 46.12 | 22 | 60.6 | 13 | 35.64 | 24 | 25.6 | 28 | 35.06 | 22 | 45.2 | 25 |
| Febr. 9 | 18.56 | 41 | 22.7 | 13 | 46.34 | 24 | 59.3 | 11 | 35.88 | 27 | 22.8 | 24 | 35.28 | 25 | 42.7 | 21 |
| 19 | 18.97 | 44 | 21.4 | 13 | 46.58 | 27 | 58.2 | 8 | 36.15 | 31 | 20.4 | 19 | 35.53 | 27 | 40.6 | 17 |
| März 1 | 19.41 | 46 | 20.1 | 9 | 46.85 | 28 | 57.4 | 5 | 36.46 | 33 | 18.5 | 14 | 35.80 | 30 | 38.9 | 12 |
| 11 | 19.87 | 48 | 19.2 | 8 | 47.13 | 28 | 56.9 | 2 | 36.79 | 34 | 17.1 | 8 | 36.10 | 31 | 37.7 | 7 |
| 21 | 20.35 | 49 | 18.4 | 5 | 47.41 | 30 | 56.7 | — 2 | 37.13 | 36 | 16.3 | 2 | 36.41 | 32 | 37.0 | 1 |
| 31 | 20.84 | 49 | 17.9 | 3 | 47.71 | 30 | 56.9 | 5 | 37.49 | 37 | 16.1 | — 5 | 36.73 | 33 | 36.9 | — 5 |
| April 10 | 21.33 | 49 | 17.6 | 1 | 48.01 | 30 | 57.4 | 8 | 37.86 | 35 | 16.6 | 10 | 37.06 | 32 | 37.4 | 10 |
| 20 | 21.82 | 48 | 17.5 | — 2 | 48.31 | 29 | 58.2 | 11 | 38.21 | 35 | 17.6 | 16 | 37.38 | 31 | 38.4 | 15 |
| 30 | 22.30 | 46 | 17.7 | 5 | 48.60 | 28 | 59.3 | 14 | 38.56 | 32 | 19.2 | 21 | 37.69 | 30 | 39.9 | 19 |
| Mai 10 | 22.76 | 43 | 18.2 | 7 | 48.88 | 26 | 60.7 | 15 | 38.88 | 29 | 21.3 | 24 | 37.99 | 28 | 41.8 | 23 |
| 20 | 23.19 | 39 | 18.9 | 9 | 49.14 | 25 | 62.2 | 16 | 39.17 | 26 | 23.7 | 28 | 38.27 | 25 | 44.1 | 25 |
| 30 | 23.58 | 36 | 19.8 | 12 | 49.39 | 21 | 63.8 | 17 | 39.43 | 22 | 26.5 | 30 | 38.52 | 21 | 46.6 | 28 |
| Juni 9 | 23.94 | 30 | 20.0 | 13 | 49.60 | 19 | 65.5 | 17 | 39.65 | 17 | 29.5 | 31 | 38.73 | 17 | 49.4 | 28 |
| 19 | 24.24 | 24 | 22.3 | 16 | 49.79 | 15 | 67.2 | 17 | 39.82 | 12 | 32.6 | 33 | 38.90 | 14 | 52.2 | 29 |
| 29 | 24.48 | 18 | 23.9 | 16 | 49.94 | 11 | 68.9 | 16 | 39.94 | 7 | 35.9 | 31 | 39.04 | 8 | 55.1 | 29 |
| Juli 9 | 24.66 | 11 | 25.5 | 18 | 50.05 | 7 | 70.5 | 14 | 40.01 | 1 | 39.0 | 31 | 39.12 | 4 | 58.0 | 27 |
| 19 | 24.77 | 5 | 27.3 | 17 | 50.12 | 2 | 71.9 | 13 | 40.02 | — 4 | 42.1 | 29 | 39.16 | — 1 | 60.7 | 26 |
| 29 | 24.82 | — 3 | 29.0 | 17 | 50.14 | — 1 | 73.2 | 12 | 39.98 | 10 | 45.0 | 26 | 39.15 | 5 | 63.3 | 23 |
| Aug. 8 | 24.79 | 10 | 30.7 | 16 | 50.13 | 6 | 74.4 | 9 | 39.88 | 14 | 47.6 | 23 | 39.10 | 10 | 65.6 | 20 |
| 18 | 24.69 | 15 | 32.3 | 15 | 50.07 | 9 | 75.3 | 8 | 39.74 | 19 | 49.9 | 19 | 39.00 | 15 | 67.6 | 17 |
| 28 | 24.54 | 20 | 33.8 | 12 | 49.98 | 13 | 76.1 | 6 | 39.55 | 22 | 51.8 | 16 | 38.85 | 17 | 69.3 | 14 |
| Sept. 7 | 24.34 | 25 | 35.0 | 9 | 49.85 | 15 | 76.7 | 3 | 39.33 | 26 | 53.4 | 11 | 38.68 | 20 | 70.7 | 10 |
| 17 | 24.09 | 27 | 35.9 | 6 | 49.70 | 16 | 77.0 | 2 | 39.07 | 27 | 54.5 | 7 | 38.48 | 22 | 71.7 | 6 |
| 27 | 23.82 | 28 | 36.5 | 3 | 49.54 | 16 | 77.2 | — 1 | 38.80 | 28 | 55.2 | 2 | 38.26 | 23 | 72.3 | 1 |
| Okt. 7 | 23.54 | 28 | 36.8 | — 1 | 49.38 | 17 | 77.1 | 3 | 38.52 | 28 | 55.4 | — 3 | 38.03 | 22 | 72.4 | — 3 |
| 17 | 23.26 | 26 | 36.7 | 5 | 49.21 | 15 | 76.8 | 5 | 38.24 | 27 | 55.1 | 8 | 37.81 | 21 | 72.1 | 7 |
| 27 | 23.00 | 22 | 36.2 | 8 | 49.06 | 12 | 76.3 | 7 | 37.97 | 24 | 54.3 | 13 | 37.60 | 19 | 71.4 | 12 |
| Nov. 6 | 22.78 | 17 | 35.4 | 11 | 48.94 | 10 | 75.6 | 9 | 37.73 | 21 | 53.0 | 17 | 37.41 | 16 | 70.2 | 15 |
| 16 | 22.61 | 11 | 34.3 | 14 | 48.84 | 7 | 74.7 | 10 | 37.52 | 16 | 51.3 | 22 | 37.25 | 12 | 68.7 | 19 |
| 26 | 22.50 | 4 | 32.9 | 16 | 48.77 | 2 | 73.7 | 13 | 37.36 | 12 | 49.1 | 26 | 37.13 | 8 | 66.8 | 23 |
| Dez. 6 | 22.46 | — 2 | 31.3 | 18 | 48.75 | — 2 | 72.4 | 14 | 37.24 | 6 | 46.5 | 28 | 37.05 | 3 | 64.5 | 26 |
| 16 | 22.48 | 10 | 29.5 | 19 | 48.77 | 6 | 71.0 | 15 | 37.18 | 1 | 43.7 | 31 | 37.02 | — 2 | 61.9 | 28 |
| 26 | 22.58 | 19 | 27.6 | 20 | 48.83 | 12 | 69.5 | 18 | 37.17 | — 6 | 40.6 | 36 | 37.04 | 7 | 59.1 | 31 |
| 36 | 22.77 | | 25.6 | | 48.95 | | 67.7 | | 37.23 | | 37.0 | | 37.11 | | 56.0 | |
| Mittl. Ort | 20.67 | | 21.0 | | 47.71 | | 73.4 | | 37.63 | | 42.0 | | 36.84 | | 60.9 | |
| | 708) | | | | 709) | | | | 711) | | | | 713) | | | |

| 1911 | ζ Aquilae. 3m.0. AR. | | Dekl. + | | λ Aquilae. 3m.2. AR. | | Dekl. − | | α Coron. austr. 4m.1. AR. | | Dekl. − | | π Sagittarii. 2m.9. AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 19h 1m | | 13° 43′ | | 19h 1m | | 5° 0′ | | 19h 3m | | 38° 2′ | | 19h 4m | | 21° 9′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | | s | | ″ | |
| Jan. 0 | 17.08 | 12 | 42.2 | 23 | 29.45 | 14 | 68.5 | 11 | 22.48 | 17 | 47.6 | 11 | 26.04 | 16 | 66.1 | 1 |
| 10 | 17.20 | 14 | 39.9 | 21 | 29.59 | 16 | 69.6 | 11 | 22.65 | 20 | 46.5 | 10 | 26.20 | 17 | 66.2 | 0 |
| 20 | 17.34 | 18 | 37.8 | 19 | 29.75 | 19 | 70.7 | 9 | 22.85 | 25 | 45.5 | 10 | 26.37 | 20 | 66.2 | 0 |
| 30 | 17.52 | 21 | 35.9 | 18 | 29.94 | 22 | 71.6 | 9 | 23.10 | 29 | 44.5 | 9 | 26.57 | 24 | 66.2 | 0 |
| Febr. 9 | 17.73 | 24 | 34.1 | 15 | 30.16 | 24 | 72.5 | 6 | 23.39 | 31 | 43.6 | 9 | 26.81 | 27 | 66.2 | 1 |
| 19 | 17.97 | 25 | 32.6 | 11 | 30.40 | 27 | 73.1 | 5 | 23.70 | 33 | 42.7 | 8 | 27.08 | 28 | 66.1 | 2 |
| März 1 | 18.22 | 28 | 31.5 | 8 | 30.67 | 28 | 73.6 | 2 | 24.03 | 36 | 41.9 | 7 | 27.36 | 30 | 65.9 | 3 |
| 11 | 18.50 | 28 | 30.7 | 4 | 30.95 | 29 | 73.8 | 0 | 24.39 | 37 | 41.2 | 7 | 27.66 | 31 | 65.6 | 4 |
| 21 | 18.78 | 30 | 30.3 | 1 | 31.24 | 30 | 73.8 | 3 | 24.76 | 38 | 40.5 | 6 | 27.97 | 32 | 65.2 | 4 |
| 31 | 19.08 | 30 | 30.4 | 5 | 31.54 | 30 | 73.5 | 5 | 25.14 | 38 | 39.9 | 6 | 28.29 | 33 | 64.8 | 6 |
| April 10 | 19.38 | 30 | 30.9 | 9 | 31.84 | 30 | 73.0 | 8 | 25.52 | 39 | 39.3 | 3 | 28.62 | 33 | 64.2 | 6 |
| 20 | 19.68 | 29 | 31.8 | 12 | 32.14 | 30 | 72.2 | 9 | 25.91 | 38 | 39.0 | 3 | 28.95 | 32 | 63.6 | 6 |
| 30 | 19.97 | 29 | 33.0 | 16 | 32.44 | 29 | 71.3 | 11 | 26.29 | 37 | 38.7 | 2 | 29.27 | 32 | 63.0 | 7 |
| Mai 10 | 20.26 | 26 | 34.6 | 18 | 32.73 | 28 | 70.2 | 12 | 26.66 | 35 | 38.5 | 1 | 29.59 | 30 | 62.3 | 6 |
| 20 | 20.52 | 25 | 36.4 | 20 | 33.01 | 26 | 69.0 | 13 | 27.01 | 33 | 38.6 | 1 | 29.89 | 28 | 61.7 | 6 |
| 30 | 20.77 | 22 | 38.4 | 21 | 33.27 | 23 | 67.7 | 13 | 27.34 | 29 | 38.7 | 4 | 30.17 | 26 | 61.1 | 5 |
| Juni 9 | 20.99 | 19 | 40.5 | 22 | 33.50 | 20 | 66.4 | 13 | 27.63 | 26 | 39.1 | 5 | 30.43 | 22 | 60.6 | 5 |
| 19 | 21.18 | 15 | 42.7 | 22 | 33.70 | 16 | 65.1 | 12 | 27.89 | 22 | 39.6 | 6 | 30.65 | 19 | 60.1 | 3 |
| 29 | 21.33 | 11 | 44.9 | 21 | 33.86 | 13 | 63.9 | 11 | 28.11 | 16 | 40.2 | 8 | 30.84 | 14 | 59.8 | 2 |
| Juli 9 | 21.44 | 7 | 47.0 | 20 | 33.99 | 9 | 62.8 | 10 | 28.27 | 11 | 41.0 | 9 | 30.98 | 11 | 59.6 | 0 |
| 19 | 21.51 | 2 | 49.0 | 18 | 34.08 | 4 | 61.8 | 9 | 28.38 | 6 | 41.9 | 10 | 31.09 | 5 | 59.6 | 0 |
| 29 | 21.53 | 2 | 50.8 | 16 | 34.12 | 0 | 60.9 | 7 | 28.44 | 1 | 42.9 | 11 | 31.14 | 1 | 59.6 | 1 |
| Aug. 8 | 21.51 | 6 | 52.4 | 14 | 34.12 | 5 | 60.2 | 6 | 28.45 | 5 | 44.0 | 10 | 31.15 | 4 | 59.7 | 2 |
| 18 | 21.45 | 9 | 53.8 | 12 | 34.07 | 8 | 59.6 | 4 | 28.40 | 10 | 45.0 | 9 | 31.11 | 8 | 59.9 | 3 |
| 28 | 21.36 | 13 | 55.0 | 9 | 33.99 | 11 | 59.2 | 3 | 28.30 | 14 | 45.9 | 9 | 31.03 | 11 | 60.2 | 3 |
| Sept. 7 | 21.23 | 16 | 55.9 | 6 | 33.88 | 14 | 58.9 | 1 | 28.16 | 17 | 46.8 | 7 | 30.92 | 14 | 60.5 | 3 |
| 17 | 21.07 | 17 | 56.5 | 3 | 33.74 | 15 | 58.8 | 0 | 27.99 | 19 | 47.5 | 5 | 30.78 | 16 | 60.8 | 2 |
| 27 | 20.90 | 18 | 56.8 | 0 | 33.59 | 17 | 58.8 | 1 | 27.80 | 21 | 48.0 | 4 | 30.62 | 17 | 61.0 | 3 |
| Okt. 7 | 20.72 | 17 | 56.8 | 2 | 33.42 | 16 | 58.9 | 2 | 27.59 | 20 | 48.4 | 1 | 30.45 | 17 | 61.3 | 2 |
| 17 | 20.55 | 17 | 56.6 | 6 | 33.26 | 15 | 59.1 | 4 | 27.39 | 19 | 48.5 | 1 | 30.28 | 16 | 61.5 | 1 |
| 27 | 20.38 | 14 | 56.0 | 8 | 33.11 | 12 | 59.5 | 5 | 27.20 | 16 | 48.4 | 4 | 30.12 | 13 | 61.6 | 1 |
| Nov. 6 | 20.24 | 11 | 55.2 | 12 | 32.99 | 10 | 60.0 | 6 | 27.04 | 13 | 48.0 | 5 | 29.99 | 10 | 61.7 | 1 |
| 16 | 20.13 | 8 | 54.0 | 14 | 32.89 | 6 | 60.6 | 7 | 26.91 | 8 | 47.5 | 7 | 29.89 | 6 | 61.8 | 0 |
| 26 | 20.05 | 5 | 52.6 | 16 | 32.83 | 3 | 61.3 | 8 | 26.83 | 3 | 46.8 | 8 | 29.83 | 2 | 61.8 | 0 |
| Dez. 6 | 20.00 | 0 | 51.0 | 18 | 32.80 | 2 | 62.1 | 9 | 26.80 | 3 | 46.0 | 9 | 29.81 | 2 | 61.8 | 0 |
| 16 | 20.00 | 5 | 49.2 | 20 | 32.82 | 6 | 63.0 | 10 | 26.83 | 7 | 45.1 | 10 | 29.83 | 7 | 61.8 | 0 |
| 26 | 20.05 | 9 | 47.2 | 22 | 32.88 | 12 | 64.0 | 11 | 26.90 | 14 | 44.1 | 11 | 29.90 | 13 | 61.8 | 1 |
| 36 | 20.14 | | 45.0 | | 33.00 | | 65.1 | | 27.04 | | 43.0 | | 30.03 | | 61.9 | |
| Mittl. Ort | 19.16 | | 49.7 | | 31.56 | | 60.1 | | 25.09 | | 38.1 | | 28.30 | | 57.1 | |
| | 716) | | | | 717) | | | | 718) | | | | 720) | | | |

| 1911 | δ Draconis. $3^m.0$. | | | | ϑ Lyrae. $4^m.3$. | | | | ω Aquilae. $5^m.4$. | | | | ϰ Cygni. $3^m.8$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. + | |
| | $19^h\ 12^m$ | | 67° 29′ | | $19^h\ 13^m$ | | 37° 58′ | | $19^h\ 13^m$ | | 11° 25′ | | $19^h\ 15^m$ | | 53° 11′ | |
| Jan. 0 | 28.45 | 4 | 73.5 | 38 | 14.42 | 7 | 23.0 | 34 | 36.27 | 11 | 55.7 | 21 | 0.06 | 3 | 69.1 | 38 |
| 10 | 28.41 | —9 | 69.7 | 36 | 7 14.49 | 11 | 19.6 | 30 | 7 36.38 | 13 | 53.6 | 19 | 8 0.09 | 10 | 65.3 | 34 |
| 20 | 28.50 | 19 | 66.1 | 35 | 14.60 | 16 | 16.6 | 30 | 36.51 | 17 | 51.7 | 18 | 0.19 | 16 | 61.9 | 33 |
| 30 | 28.69 | 29 | 62.6 | 32 | 14.76 | 21 | 13.6 | 26 | 36.68 | 20 | 49.9 | 16 | 0.35 | 22 | 58.6 | 31 |
| Febr. 9 | 28.98 | 37 | 59.4 | 28 | 14.97 | 24 | 11.0 | 24 | 36.88 | 22 | 48.3 | 14 | 0.57 | 28 | 55.5 | 27 |
| 19 | 29.35 | 46 | 56.6 | 24 | 15.21 | 27 | 8.6 | 19 | 37.10 | 25 | 46.9 | 11 | 0.85 | 32 | 52.8 | 22 |
| März 1 | 29.81 | 52 | 54.2 | 18 | 15.48 | 30 | 6.7 | 15 | 37.35 | 27 | 45.8 | 7 | 1.17 | 36 | 50.6 | 17 |
| 11 | 30.33 | 56 | 52.4 | 12 | 15.78 | 32 | 5.2 | 8 | 37.62 | 28 | 45.1 | 3 | 1.53 | 39 | 48.9 | 11 |
| 21 | 30.89 | 60 | 51.2 | 6 | 16.10 | 33 | 4.4 | 3 | 37.90 | 29 | 44.8 | 0 | 1.92 | 41 | 47.8 | 5 |
| 31 | 31.49 | 61 | 50.6 | —1 | 16.43 | 34 | 4.1 | —3 | 38.19 | 30 | 44.8 | 5 | 2.33 | 42 | 47.3 | —2 |
| April 10 | 32.10 | 60 | 50.7 | 7 | 16.77 | 34 | 4.4 | 9 | 38.49 | 30 | 45.3 | 9 | 2.75 | 41 | 47.5 | 8 |
| 20 | 32.70 | 57 | 51.4 | 14 | 17.11 | 33 | 5.3 | 14 | 38.79 | 30 | 46.2 | 12 | 3.16 | 41 | 48.3 | 14 |
| 30 | 33.27 | 54 | 52.8 | 19 | 17.44 | 32 | 6.7 | 19 | 39.09 | 29 | 47.4 | 15 | 3.57 | 38 | 49.7 | 19 |
| Mai 10 | 33.81 | 47 | 54.7 | 24 | 17.76 | 30 | 8.6 | 23 | 39.38 | 27 | 48.9 | 18 | 3.95 | 35 | 51.6 | 24 |
| 20 | 34.28 | 41 | 57.1 | 28 | 18.06 | 27 | 10.9 | 26 | 39.65 | 26 | 50.7 | 19 | 4.30 | 31 | 54.0 | 28 |
| 30 | 34.69 | 33 | 59.9 | 31 | 18.33 | 23 | 13.5 | 28 | 39.91 | 23 | 52.6 | 21 | 4.61 | 26 | 56.8 | 30 |
| Juni 9 | 35.02 | 24 | 63.0 | 34 | 18.56 | 20 | 16.3 | 30 | 40.14 | 20 | 54.7 | 21 | 4.87 | 21 | 59.8 | 33 |
| 19 | 35.26 | 14 | 66.4 | 34 | 18.76 | 14 | 19.3 | 31 | 40.34 | 16 | 56.8 | 21 | 5.08 | 15 | 63.1 | 34 |
| 29 | 35.40 | 5 | 69.8 | 35 | 18.90 | 10 | 22.4 | 31 | 40.50 | 12 | 58.9 | 20 | 5.23 | 8 | 66.5 | 34 |
| Juli 9 | 35.45 | —6 | 73.3 | 34 | 19.00 | 5 | 25.5 | 30 | 40.62 | 8 | 60.9 | 19 | 5.31 | 2 | 69.9 | 34 |
| 19 | 35.39 | 15 | 76.7 | 33 | 19.05 | 0 | 28.5 | 28 | 40.70 | 4 | 62.8 | 18 | 5.33 | —5 | 73.3 | 32 |
| 29 | 35.24 | 25 | 80.0 | 32 | 19.05 | 5 | 31.3 | 26 | 40.74 | 0 | 64.6 | 15 | 5.28 | 11 | 76.5 | 29 |
| Aug. 8 | 34.99 | 33 | 83.2 | 28 | 19.00 | 10 | 33.9 | 24 | 40.74 | 5 | 66.1 | 14 | 5.17 | 17 | 79.4 | 27 |
| 18 | 34.66 | 41 | 86.0 | 24 | 18.90 | 15 | 36.3 | 20 | 40.69 | 8 | 67.5 | 11 | 5.00 | 23 | 82.1 | 24 |
| 28 | 34.25 | 48 | 88.4 | 21 | 18.75 | 18 | 38.3 | 16 | 40.61 | 12 | 68.6 | 9 | 4.77 | 27 | 84.5 | 19 |
| Sept. 7 | 33.77 | 54 | 90.5 | 17 | 18.57 | 21 | 39.9 | 13 | 40.49 | 15 | 69.5 | 6 | 4.50 | 31 | 86.4 | 16 |
| 17 | 33.23 | 57 | 92.2 | 12 | 18.36 | 24 | 41.2 | 8 | 40.34 | 16 | 70.1 | 4 | 4.19 | 33 | 88.0 | 10 |
| 27 | 32.66 | 60 | 93.4 | 6 | 18.12 | 24 | 42.0 | 4 | 40.18 | 17 | 70.5 | 1 | 3.86 | 35 | 89.0 | 6 |
| Okt. 7 | 32.06 | 61 | 94.0 | 1 | 17.88 | 25 | 42.4 | —1 | 40.01 | 18 | 70.6 | —2 | 3.51 | 36 | 89.6 | 1 |
| 17 | 31.45 | 59 | 94.1 | —4 | 17.63 | 23 | 42.3 | 5 | 39.83 | 16 | 70.4 | 5 | 3.15 | 34 | 89.7 | —5 |
| 27 | 30.86 | 57 | 93.7 | 10 | 17.40 | 22 | 41.8 | 10 | 39.67 | 14 | 69.9 | 8 | 2.81 | 33 | 89.2 | 10 |
| Nov. 6 | 30.29 | 52 | 92.7 | 15 | 17.18 | 19 | 40.8 | 15 | 39.53 | 12 | 69.1 | 10 | 2.48 | 29 | 88.2 | 15 |
| 16 | 29.77 | 46 | 91.2 | 20 | 16.99 | 15 | 39.3 | 19 | 39.41 | 9 | 68.1 | 12 | 2.19 | 25 | 86.7 | 20 |
| 26 | 29.31 | 38 | 89.2 | 25 | 16.84 | 11 | 37.4 | 22 | 39.32 | 4 | 66.9 | 15 | 1.94 | 19 | 84.7 | 25 |
| Dez. 6 | 28.93 | 29 | 86.7 | 30 | 16.73 | 7 | 35.2 | 26 | 39.28 | 1 | 65.4 | 16 | 1.75 | 14 | 82.2 | 28 |
| 16 | 28.64 | 20 | 83.7 | 32 | 16.66 | 1 | 32.6 | 29 | 39.27 | —3 | 63.8 | 19 | 1.61 | 7 | 79.4 | 32 |
| 26 | 28.44 | 9 | 80.5 | 34 | 16.65 | —3 | 29.7 | 30 | 39.30 | 8 | 61.9 | 19 | 1.54 | 1 | 76.2 | 33 |
| 36 | 28.35 | | 77.1 | | 16.68 | | 26.7 | | 39.38 | | 60.0 | | 1.53 | | 72.9 | |
| Mittl. Ort | 32.25 | | 77.8 | | 16.71 | | 28.8 | | 38.34 | | 63.3 | | 2.79 | | 73.9 | |
| | 723) | | | | 724) | | | | 725) | | | | 726) | | | |

| 1911 | τ Draconis. 4ᵐ.5. AR. | | Dekl. + | | α Sagittarii. 4ᵐ.0. AR. | | Dekl. — | | δ Aquilae. 3ᵐ.3. AR. | | Dekl. + | | β Cygni. 3ᵐ.0. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 19h 17m | | 73° 10′ | | 19h 17m | | 40° 47′ | | 19h 20m | | 2° 55′ | | 19h 27m | | 27° 45′ | |
| Jan. 0 | 11.47 | 11 | 82.3 | 38 | 40.64 | 16 | 13.4 | 14 | 58.61 | 11 | 63.8 | 16 | 5.76 | 6 | 73.7 | 27 |
| 10 | 11.36 | — 5 | 78.5 | 36 | 40.80 | 19 | 12.0 | 12 | 58.72 | 13 | 62.2 | 15 | 5.82 | 12 | 71.0 | 29 |
| 20 | 11.41 | 19 | 74.9 | 34 | 40.99 | 23 | 10.8 | 12 | 58.85 | 17 | 60.7 | 13 | 5.94 | 15 | 68.1 | 25 |
| 30 | 11.60 | 33 | 71.5 | 32 | 41.22 | 27 | 9.6 | 12 | 59.02 | 20 | 59.4 | 12 | 6.09 | 18 | 65.6 | 23 |
| Febr. 9 | 11.93 | 46 | 68.3 | 29 | 41.49 | 31 | 8.4 | 11 | 59.22 | 22 | 58.2 | 10 | 6.27 | 22 | 63.3 | 21 |
| 19 | 12.39 | 56 | 65.4 | 25 | 41.80 | 34 | 7.3 | 11 | 59.44 | 24 | 57.2 | 7 | 6.49 | 24 | 61.2 | 17 |
| März 1 | 12.95 | 65 | 62.9 | 19 | 42.14 | 36 | 6.2 | 10 | 59.68 | 27 | 56.5 | 5 | 6.73 | 27 | 59.5 | 12 |
| 11 | 13.60 | 72 | 61.0 | 13 | 42.50 | 37 | 5.2 | 9 | 59.95 | 28 | 56.0 | 1 | 7.00 | 29 | 58.3 | 7 |
| 21 | 14.32 | 76 | 59.7 | 7 | 42.87 | 39 | 4.3 | 8 | 60.23 | 29 | 55.9 | — 2 | 7.29 | 31 | 57.6 | 2 |
| 31 | 15.08 | 77 | 59.0 | 0 | 43.26 | 40 | 3.5 | 6 | 60.52 | 30 | 56.1 | 6 | 7.60 | 31 | 57.4 | — 3 |
| April 10 | 15.85 | 77 | 59.0 | 6 | 43.66 | 40 | 2.9 | 6 | 60.82 | 30 | 56.7 | 8 | 7.91 | 32 | 57.7 | 8 |
| 20 | 16.62 | 74 | 59.6 | 13 | 44.06 | 40 | 2.3 | 3 | 61.12 | 30 | 57.5 | 12 | 8.23 | 31 | 58.5 | 13 |
| 30 | 17.36 | 67 | 60.9 | 18 | 44.46 | 38 | 2.0 | 3 | 61.42 | 29 | 58.7 | 13 | 8.54 | 31 | 59.8 | 17 |
| Mai 10 | 18.03 | 61 | 62.7 | 23 | 44.84 | 38 | 1.7 | 0 | 61.71 | 28 | 60.0 | 15 | 8.85 | 29 | 61.5 | 21 |
| 20 | 18.64 | 51 | 65.0 | 27 | 45.22 | 35 | 1.7 | 2 | 61.99 | 27 | 61.5 | 17 | 9.14 | 27 | 63.6 | 24 |
| 30 | 19.15 | 40 | 67.7 | 30 | 45.57 | 32 | 1.9 | 3 | 62.26 | 24 | 63.2 | 17 | 9.41 | 24 | 66.0 | 25 |
| Juni 9 | 19.55 | 29 | 70.7 | 33 | 45.89 | 28 | 2.2 | 6 | 62.50 | 21 | 64.9 | 18 | 9.65 | 20 | 68.5 | 27 |
| 19 | 19.84 | 16 | 74.0 | 35 | 46.17 | 24 | 2.8 | 7 | 62.71 | 17 | 66.7 | 17 | 9.85 | 17 | 71.2 | 28 |
| 29 | 20.00 | 3 | 77.5 | 36 | 46.41 | 18 | 3.5 | 9 | 62.88 | 14 | 68.4 | 16 | 10.02 | 13 | 74.0 | 28 |
| Juli 9 | 20.03 | — 10 | 81.0 | 34 | 46.59 | 14 | 4.4 | 11 | 63.02 | 10 | 70.0 | 15 | 10.15 | 7 | 76.8 | 27 |
| 19 | 19.93 | 23 | 84.4 | 33 | 46.73 | 7 | 5.5 | 11 | 63.12 | 5 | 71.5 | 13 | 10.22 | 3 | 79.5 | 25 |
| 29 | 19.70 | 35 | 87.7 | 32 | 46.80 | 2 | 6.6 | 12 | 63.17 | 1 | 72.8 | 12 | 10.25 | — 1 | 82.0 | 24 |
| Aug. 8 | 19.35 | 46 | 90.9 | 29 | 46.82 | — 4 | 7.8 | 12 | 63.18 | — 3 | 74.0 | 10 | 10.24 | 6 | 84.4 | 21 |
| 18 | 18.89 | 57 | 93.8 | 25 | 46.78 | 9 | 9.0 | 11 | 63.15 | 7 | 75.0 | 8 | 10.18 | 11 | 86.5 | 18 |
| 28 | 18.32 | 65 | 96.3 | 22 | 46.69 | 13 | 10.1 | 10 | 63.08 | 11 | 75.8 | 6 | 10.07 | 14 | 88.3 | 15 |
| Sept. 7 | 17.67 | 73 | 98.5 | 17 | 46.56 | 17 | 11.1 | 9 | 62.97 | 13 | 76.4 | 5 | 9.93 | 17 | 89.8 | 11 |
| 17 | 16.94 | 78 | 100.2 | 13 | 46.39 | 20 | 12.0 | 7 | 62.84 | 15 | 76.9 | 2 | 9.76 | 19 | 90.9 | 8 |
| 27 | 16.16 | 81 | 101.5 | 8 | 46.19 | 21 | 12.7 | 4 | 62.69 | 16 | 77.1 | 0 | 9.57 | 20 | 91.7 | 4 |
| Okt. 7 | 15.35 | 83 | 102.3 | 2 | 45.98 | 21 | 13.1 | 2 | 62.53 | 17 | 77.1 | 2 | 9.37 | 20 | 92.1 | 0 |
| 17 | 14.52 | 82 | 102.5 | — 3 | 45.77 | 21 | 13.3 | 0 | 62.36 | 15 | 76.9 | 4 | 9.17 | 20 | 92.1 | 5 |
| 27 | 13.70 | 78 | 102.2 | 8 | 45.56 | 17 | 13.3 | 3 | 62.21 | 14 | 76.5 | 6 | 8.97 | 18 | 91.6 | 8 |
| Nov. 6 | 12.92 | 73 | 101.4 | 14 | 45.39 | 14 | 13.0 | 5 | 62.07 | 11 | 75.9 | 8 | 8.79 | 16 | 90.8 | 12 |
| 16 | 12.19 | 65 | 100.0 | 20 | 45.25 | 10 | 12.5 | 7 | 61.96 | 8 | 75.1 | 9 | 8.63 | 13 | 89.6 | 16 |
| 26 | 11.54 | 56 | 98.0 | 24 | 45.15 | 5 | 11.8 | 10 | 61.88 | 4 | 74.2 | 11 | 8.50 | 9 | 88.0 | 19 |
| Dez. 6 | 10.98 | 45 | 95.6 | 28 | 45.10 | 0 | 10.8 | 10 | 61.84 | 0 | 73.1 | 13 | 8.41 | 5 | 86.1 | 22 |
| 16 | 10.53 | 32 | 92.8 | 31 | 45.10 | 6 | 9.8 | 12 | 61.84 | 3 | 71.8 | 13 | 8.36 | 0 | 83.9 | 24 |
| 26 | 10.21 | 18 | 89.7 | 34 | 45.16 | 11 | 8.6 | 12 | 61.87 | 8 | 70.5 | 15 | 8.36 | 4 | 81.5 | 26 |
| 36 | 10.03 | | 86.3 | | 45.27 | | 7.4 | | 61.95 | | 69.0 | | 8.40 | | 78.9 | |
| Mittl. Ort | 16.25 | | 86.0 | | 43.29 | | 2.8 | | 60.67 | | 71.9 | | 7.91 | | 79.8 | |
| | 729) | | | | 728) | | | | 730) | | | | 732) | | | |

| 1911 | ι Cygni. $3^m.9$. | | | | h Sagittarii. $4^m.6$. | | | | θ Cygni. $4^m.5$. | | | | γ Aquilae. $2^m.7$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. — | | AR. | | Dekl. + | | AR. | | Dekl. + | |
| | $19^h\ 27^m$ | | 51° 31′ | | $19^h\ 31^m$ | | 25° 4′ | | $19^h\ 34^m$ | | 50° 0′ | | $19^h\ 41^m$ | | 10° 23′ | |
| Jan. 0 | $25^s.08$ | 1 | 78″.8 | 33 | $15^s.30$ | 11 | 61″.2 | 2 | $0^s.67$ | 0 | 48″.3 | 32 | $59^s.68$ | 6 | 37″.3 | 18 |
| 10 | 25.09 | 8 | 75.5 | 37 | 15.41 | 16 | 61.0 | 4 | 0.67 | 8 | 45.1 | 37 | 59.74 | 12 | 35.5 | 20 |
| 20 | [11] 25.17 | 15 | 71.8 | 33 | [11] 15.57 | 19 | 60.6 | 4 | [12] 0.75 | 13 | 41.4 | 32 | [14] 59.86 | 14 | 33.5 | 16 |
| 30 | 25.32 | 20 | 68.5 | 31 | 15.76 | 22 | 60.2 | 4 | 0.88 | 19 | 38.2 | 31 | 60.00 | 18 | 31.9 | 16 |
| Febr. 9 | 25.52 | 25 | 65.4 | 27 | 15.98 | 25 | 59.8 | 4 | 1.07 | 24 | 35.1 | 27 | 60.18 | 20 | 30.3 | 13 |
| 19 | 25.77 | 30 | 62.7 | 23 | 16.23 | 27 | 59.4 | 6 | 1.31 | 29 | 32.4 | 23 | 60.38 | 22 | 29.0 | 10 |
| März 1 | 26.07 | 34 | 60.4 | 18 | 16.50 | 29 | 58.8 | 6 | 1.60 | 32 | 30.1 | 18 | 60.60 | 25 | 28.0 | 7 |
| 11 | 26.41 | 37 | 58.6 | 12 | 16.79 | 31 | 58.2 | 6 | 1.92 | 36 | 28.3 | 12 | 60.85 | 27 | 27.3 | 3 |
| 21 | 26.78 | 39 | 57.4 | 6 | 17.10 | 33 | 57.6 | 8 | 2.28 | 38 | 27.1 | 6 | 61.12 | 28 | 27.0 | — 1 |
| 31 | 27.17 | 41 | 56.8 | — 1 | 17.43 | 33 | 56.8 | 7 | 2.66 | 40 | 26.5 | 0 | 61.40 | 30 | 27.1 | 4 |
| April 10 | 27.58 | 40 | 56.9 | 7 | 17.76 | 34 | 56.1 | 8 | 3.06 | 39 | 26.5 | 6 | 61.70 | 30 | 27.5 | 9 |
| 20 | 27.98 | 40 | 57.6 | 13 | 18.10 | 34 | 55.3 | 8 | 3.45 | 39 | 27.1 | 13 | 62.00 | 30 | 28.4 | 12 |
| 30 | 28.38 | 38 | 58.9 | 18 | 18.44 | 33 | 54.5 | 7 | 3.84 | 38 | 28.4 | 17 | 62.30 | 30 | 29.6 | 15 |
| Mai 10 | 28.76 | 36 | 60.7 | 23 | 18.77 | 32 | 53.8 | 7 | 4.22 | 35 | 30.1 | 23 | 62.60 | 29 | 31.1 | 17 |
| 20 | 29.12 | 32 | 63.0 | 27 | 19.09 | 31 | 53.1 | 6 | 4.57 | 32 | 32.4 | 26 | 62.89 | 27 | 32.8 | 19 |
| 30 | 29.44 | 27 | 65.7 | 31 | 19.40 | 29 | 52.5 | 5 | 4.89 | 28 | 35.0 | 30 | 63.16 | 25 | 34.7 | 21 |
| Juni 9 | 29.71 | 22 | 68.8 | 32 | 19.69 | 25 | 52.0 | 4 | 5.17 | 23 | 38.0 | 32 | 63.41 | 23 | 36.8 | 21 |
| 19 | 29.93 | 17 | 72.0 | 33 | 19.94 | 22 | 51.6 | 2 | 5.40 | 17 | 41.2 | 34 | 63.64 | 19 | 38.9 | 21 |
| 29 | 30.10 | 10 | 75.3 | 35 | 20.16 | 17 | 51.4 | 1 | 5.57 | 11 | 44.6 | 34 | 63.83 | 15 | 41.0 | 20 |
| Juli 9 | 30.20 | 4 | 78.8 | 33 | 20.33 | 13 | 51.3 | — 1 | 5.68 | 6 | 48.0 | 33 | 63.98 | 11 | 43.0 | 20 |
| 19 | 30.24 | — 2 | 82.1 | 32 | 20.46 | 9 | 51.4 | 2 | 5.74 | — 1 | 51.3 | 33 | 64.09 | 6 | 45.0 | 18 |
| 29 | 30.22 | 9 | 85.3 | 31 | 20.55 | 3 | 51.6 | 3 | 5.73 | 7 | 54.6 | 30 | 64.15 | 2 | 46.8 | 16 |
| Aug. 8 | 30.13 | 14 | 88.4 | 27 | 20.58 | — 1 | 51.9 | 4 | 5.66 | 13 | 57.6 | 28 | 64.17 | — 2 | 48.4 | 15 |
| 18 | 29.99 | 20 | 91.1 | 25 | 20.57 | 6 | 52.3 | 5 | 5.53 | 18 | 60.4 | 25 | 64.15 | 6 | 49.9 | 11 |
| 28 | 29.79 | 25 | 93.6 | 21 | 20.51 | 10 | 52.8 | 5 | 5.35 | 22 | 62.9 | 21 | 64.09 | 10 | 51.0 | 10 |
| Sept. 7 | 29.54 | 28 | 95.7 | 16 | 20.41 | 13 | 53.3 | 5 | 5.13 | 27 | 65.0 | 17 | 63.99 | 13 | 52.0 | 7 |
| 17 | 29.26 | 31 | 97.3 | 12 | 20.28 | 16 | 53.8 | 5 | 4.86 | 30 | 66.7 | 13 | 63.86 | 15 | 52.7 | 5 |
| 27 | 28.95 | 33 | 98.5 | 7 | 20.12 | 17 | 54.3 | 3 | 4.56 | 31 | 68.0 | 8 | 63.71 | 16 | 53.2 | 2 |
| Okt. 7 | 28.62 | 34 | 99.2 | 3 | 19.95 | 17 | 54.6 | 3 | 4.25 | 32 | 68.8 | 3 | 63.55 | 17 | 53.4 | — 1 |
| 17 | 28.28 | 33 | 99.5 | — 3 | 19.78 | 16 | 54.9 | 2 | 3.93 | 32 | 69.1 | — 3 | 63.38 | 16 | 53.3 | 4 |
| 27 | 27.95 | 31 | 99.2 | 9 | 19.62 | 15 | 55.1 | 2 | 3.61 | 30 | 68.8 | 7 | 63.22 | 15 | 52.9 | 6 |
| Nov. 6 | 27.64 | 28 | 98.3 | 13 | 19.47 | 12 | 55.3 | 0 | 3.31 | 27 | 68.1 | 13 | 63.07 | 13 | 52.3 | 8 |
| 16 | 27.36 | 25 | 97.0 | 19 | 19.35 | 8 | 55.3 | 1 | 3.04 | 24 | 66.8 | 18 | 62.94 | 10 | 51.5 | 11 |
| 26 | 27.11 | 19 | 95.1 | 23 | 19.27 | 4 | 55.2 | 1 | 2.80 | 19 | 65.0 | 22 | 62.84 | 6 | 50.4 | 13 |
| Dez. 6 | 26.92 | 15 | 92.8 | 27 | 19.23 | 0 | 55.1 | 2 | 2.61 | 14 | 62.8 | 26 | 62.78 | 3 | 49.1 | 15 |
| 16 | 26.77 | 8 | 90.1 | 30 | 19.23 | 4 | 54.9 | 3 | 2.47 | 8 | 60.2 | 29 | 62.75 | — 1 | 47.6 | 16 |
| 26 | 26.69 | 2 | 87.1 | 32 | 19.27 | 9 | 54.6 | 3 | 2.39 | 3 | 57.3 | 32 | 62.76 | 5 | 46.0 | 18 |
| 36 | 26.67 | | 83.9 | | 19.36 | | 54.3 | | 2.36 | | 54.1 | | 62.81 | | 44.2 | |
| Mittl. Ort | 27.75 | | 83.0 | | 17.55 | | 50.7 | | 3.28 | | 52.3 | | 61.71 | | 44.7 | |
| | 733) | | | | 736) | | | | 738) | | | | 741) | | | |

| 1911 | δ Cygni. 2m.8. AR. | | δ Cygni. Dekl. + | | δ Sagittae. 3m.8. AR. | | δ Sagittae. Dekl. + | | α Aquilae. 1m. AR. | | α Aquilae. Dekl. + | | ε Draconis. 3m.8. AR. | | ε Draconis. Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 19h 42m | | 44° 54′ | | 19h 43m | | 18° 18′ | | 19h 46m | | 8° 37′ | | 19h 48m | | 70° 2′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | | s | | ″ | |
| Jan. 0 | 9.16 | 1 | 43.0 | 31 | 23.09 | 6 | 44.2 | 22 | 24.43 | 6 | 49.9 | 17 | 24.58 | 16 | 26.8 | 33 |
| 10 | 9.17 | 8 | 39.9 | 35 | 23.15 | 10 | 42.0 | 24 | 24.49 | 12 | 48.2 | 18 | 24.42 | 3 | 23.5 | 38 |
| 20 | [14] 9.25 | 12 | 36.4 | 32 | [14] 23.25 | 14 | 39.6 | 21 | [15] 24.61 | 14 | 46.4 | 16 | [15] 24.39 | 10 | 19.7 | 35 |
| 30 | 9.37 | 17 | 33.2 | 30 | 23.39 | 17 | 37.5 | 19 | 24.75 | 17 | 44.8 | 14 | 24.49 | 21 | 16.2 | 33 |
| Febr. 9 | 9.54 | 22 | 30.2 | 26 | 23.56 | 20 | 35.6 | 17 | 24.92 | 20 | 43.4 | 12 | 24.70 | 33 | 12.9 | 31 |
| 19 | 9.76 | 26 | 27.6 | 22 | 23.76 | 23 | 33.9 | 14 | 25.12 | 22 | 42.2 | 9 | 25.03 | 42 | 9.8 | 27 |
| März 1 | 10.02 | 30 | 25.4 | 17 | 23.99 | 25 | 32.5 | 9 | 25.34 | 25 | 41.3 | 6 | 25.45 | 51 | 7.1 | 22 |
| 11 | 10.32 | 32 | 23.7 | 12 | 24.24 | 27 | 31.6 | 6 | 25.59 | 27 | 40.7 | 3 | 25.96 | 58 | 4.9 | 16 |
| 21 | 10.64 | 35 | 22.5 | 6 | 24.51 | 29 | 31.0 | 1 | 25.86 | 28 | 40.4 | 1 | 26.54 | 63 | 3.3 | 10 |
| 31 | 10.99 | 37 | 21.9 | 0 | 24.80 | 29 | 30.9 | 4 | 26.14 | 30 | 40.5 | 5 | 27.17 | 67 | 2.3 | 4 |
| April 10 | 11.36 | 37 | 21.9 | 6 | 25.09 | 31 | 31.3 | 8 | 26.44 | 30 | 41.0 | 9 | 27.84 | 67 | 1.9 | 3 |
| 20 | 11.73 | 37 | 22.5 | 12 | 25.40 | 31 | 32.1 | 12 | 26.74 | 30 | 41.9 | 11 | 28.51 | 66 | 2.2 | 9 |
| 30 | 12.10 | 35 | 23.7 | 17 | 25.71 | 30 | 33.3 | 15 | 27.04 | 30 | 43.0 | 15 | 29.17 | 63 | 3.1 | 15 |
| Mai 10 | 12.45 | 34 | 25.4 | 21 | 26.01 | 29 | 34.8 | 19 | 27.34 | 30 | 44.5 | 17 | 29.80 | 58 | 4.6 | 21 |
| 20 | 12.79 | 31 | 27.5 | 26 | 26.30 | 28 | 36.7 | 22 | 27.64 | 27 | 46.2 | 19 | 30.38 | 51 | 6.7 | 25 |
| 30 | 13.10 | 27 | 30.1 | 29 | 26.58 | 25 | 38.9 | 23 | 27.91 | 26 | 48.1 | 20 | 30.89 | 43 | 9.2 | 29 |
| Juni 9 | 13.37 | 23 | 33.0 | 31 | 26.83 | 22 | 41.2 | 24 | 28.17 | 23 | 50.1 | 21 | 31.32 | 35 | 12.1 | 32 |
| 19 | 13.60 | 19 | 36.1 | 33 | 27.05 | 18 | 43.6 | 24 | 28.40 | 19 | 52.2 | 20 | 31.67 | 24 | 15.3 | 34 |
| 29 | 13.79 | 13 | 39.4 | 33 | 27.23 | 15 | 46.0 | 25 | 28.59 | 16 | 54.2 | 20 | 31.91 | 13 | 18.7 | 35 |
| Juli 9 | 13.92 | 7 | 42.7 | 32 | 27.38 | 10 | 48.5 | 23 | 28.75 | 11 | 56.2 | 19 | 32.04 | 2 | 22.2 | 36 |
| 19 | 13.99 | 2 | 45.9 | 32 | 27.48 | 6 | 50.8 | 22 | 28.86 | 8 | 58.1 | 18 | 32.06 | 9 | 25.8 | 35 |
| 29 | 14.01 | 4 | 49.1 | 30 | 27.54 | 2 | 53.0 | 20 | 28.94 | 3 | 59.9 | 15 | 31.97 | 19 | 29.3 | 33 |
| Aug. 8 | 13.97 | 10 | 52.1 | 27 | 27.56 | 3 | 55.0 | 18 | 28.97 | 2 | 61.4 | 14 | 31.78 | 30 | 32.6 | 32 |
| 18 | 13.87 | 14 | 54.8 | 25 | 27.53 | 8 | 56.8 | 16 | 28.95 | 5 | 62.8 | 12 | 31.48 | 40 | 35.8 | 29 |
| 28 | 13.73 | 19 | 57.3 | 21 | 27.45 | 10 | 58.4 | 13 | 28.90 | 10 | 64.0 | 9 | 31.08 | 48 | 38.7 | 25 |
| Sept. 7 | 13.54 | 22 | 59.4 | 17 | 27.35 | 14 | 59.7 | 9 | 28.80 | 12 | 64.9 | 6 | 30.60 | 55 | 41.2 | 22 |
| 17 | 13.32 | 26 | 61.1 | 12 | 27.21 | 17 | 60.6 | 7 | 28.68 | 15 | 65.5 | 5 | 30.05 | 60 | 43.4 | 17 |
| 27 | 13.06 | 27 | 62.3 | 8 | 27.04 | 17 | 61.3 | 4 | 28.53 | 16 | 66.0 | 2 | 29.45 | 65 | 45.1 | 12 |
| Okt. 7 | 12.79 | 28 | 63.1 | 4 | 26.87 | 18 | 61.7 | 0 | 28.37 | 16 | 66.2 | 1 | 28.80 | 67 | 46.3 | 8 |
| 17 | 12.51 | 28 | 63.5 | 2 | 26.69 | 17 | 61.7 | 3 | 28.21 | 16 | 66.1 | 3 | 28.13 | 67 | 47.1 | 1 |
| 27 | 12.23 | 26 | 63.3 | 7 | 26.52 | 17 | 61.4 | 7 | 28.05 | 15 | 65.8 | 6 | 27.46 | 66 | 47.2 | 4 |
| Nov. 6 | 11.97 | 24 | 62.6 | 12 | 26.35 | 14 | 60.7 | 9 | 27.90 | 13 | 65.2 | 8 | 26.80 | 63 | 46.8 | 10 |
| 16 | 11.73 | 21 | 61.4 | 16 | 26.21 | 11 | 59.8 | 13 | 27.77 | 9 | 64.4 | 10 | 26.17 | 57 | 45.8 | 15 |
| 26 | 11.52 | 16 | 59.8 | 21 | 26.10 | 8 | 58.5 | 16 | 27.68 | 7 | 63.4 | 12 | 25.60 | 51 | 44.3 | 20 |
| Dez. 6 | 11.36 | 12 | 57.7 | 25 | 26.02 | 4 | 56.9 | 18 | 27.61 | 3 | 62.2 | 14 | 25.09 | 42 | 42.3 | 25 |
| 16 | 11.24 | 7 | 55.2 | 28 | 25.98 | 0 | 55.1 | 19 | 27.58 | 1 | 60.8 | 15 | 24.67 | 32 | 39.8 | 29 |
| 26 | 11.17 | 1 | 52.4 | 30 | 25.98 | 4 | 53.2 | 21 | 27.59 | 5 | 59.3 | 16 | 24.35 | 22 | 36.9 | 32 |
| 36 | 11.16 | | 49.4 | | 26.02 | | 51.1 | | 27.64 | | 57.7 | | 24.13 | | 33.7 | |
| Mittl. Ort | 11.61 | | 46.9 | | 25.15 | | 50.7 | | 26.45 | | 57.5 | | 28.79 | | 28.5 | |
| | 742) | | | | 743) | | | | 745) | | | | 747) | | | |

| 1911 | ε Pavonis. $3^m.8$. | | | | β Aquilae. $3^m.7$. | | | | ψ Cygni. $5^m.0$. | | | | $\vartheta^1$ Sagittarii. $4^m.3$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. − | | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. − | |
| | $19^h\ 50^m$ | | 73° 8′ | | $19^h\ 50^m$ | | 6° 10′ | | $19^h\ 53^m$ | | 52° 11′ | | $19^h\ 53^m$ | | 35° 31′ | |
| Jan. 0 | 13.35 | 12 | 61.4 | 29 | 54.48 | 6 | 53.9 | 15 | 17.05 | 3 | 65.6 | 33 | 54.34 | 9 | 16.1 | 10 |
| 10 | 13.47 | 29 | 58.5 | 33 | 54.54 | 11 | 52.4 | 17 | 17.02 | 5 | 62.3 | 36 | 54.43 | 15 | 15.1 | 11 |
| 20 | [16] 13.76 | 39 | 55.2 | 30 | [16] 54.65 | 14 | 50.7 | 15 | [17] 17.07 | 10 | 58.7 | 33 | [17] 54.58 | 18 | 14.0 | 12 |
| 30 | 14.15 | 51 | 52.2 | 29 | 54.79 | 17 | 49.2 | 13 | 17.17 | 16 | 55.4 | 31 | 54.76 | 22 | 12.8 | 11 |
| Febr. 9 | 14.66 | 62 | 49.3 | 26 | 54.96 | 19 | 47.9 | 11 | 17.33 | 22 | 52.3 | 28 | 54.98 | 25 | 11.7 | 12 |
| 19 | 15.28 | 71 | 46.7 | 25 | 55.15 | 22 | 46.8 | 8 | 17.55 | 27 | 49.5 | 25 | 55.23 | 28 | 10.5 | 11 |
| März 1 | 15.99 | 78 | 44.2 | 22 | 55.37 | 25 | 46.0 | 5 | 17.82 | 32 | 47.0 | 20 | 55.51 | 30 | 9.4 | 12 |
| 11 | 16.77 | 85 | 42.0 | 18 | 55.62 | 26 | 45.5 | 2 | 18.14 | 35 | 45.0 | 15 | 55.81 | 33 | 8.2 | 11 |
| 21 | 17.62 | 90 | 40.2 | 16 | 55.88 | 28 | 45.3 | 1 | 18.49 | 38 | 43.5 | 8 | 56.14 | 35 | 7.1 | 11 |
| 31 | 18.52 | 93 | 38.6 | 11 | 56.16 | 29 | 45.4 | 5 | 18.87 | 41 | 42.7 | 2 | 56.49 | 36 | 6.0 | 11 |
| April 10 | 19.45 | 95 | 37.5 | 7 | 56.45 | 30 | 45.9 | 9 | 19.28 | 41 | 42.5 | 4 | 56.85 | 37 | 4.9 | 10 |
| 20 | 20.40 | 94 | 36.8 | 3 | 56.75 | 31 | 46.8 | 11 | 19.69 | 41 | 42.9 | 11 | 57.22 | 38 | 3.9 | 8 |
| 30 | 21.34 | 93 | 36.5 | 1 | 57.06 | 30 | 47.9 | 14 | 20.10 | 40 | 44.0 | 16 | 57.60 | 37 | 3.1 | 7 |
| Mai 10 | 22.27 | 89 | 36.6 | 6 | 57.36 | 29 | 49.3 | 17 | 20.50 | 38 | 45.6 | 21 | 57.97 | 37 | 2.4 | 6 |
| 20 | 23.16 | 84 | 37.2 | 10 | 57.65 | 28 | 51.0 | 18 | 20.88 | 35 | 47.7 | 25 | 58.34 | 35 | 1.8 | 4 |
| 30 | 24.00 | 77 | 38.2 | 13 | 57.93 | 26 | 52.8 | 19 | 21.23 | 30 | 50.2 | 29 | 58.69 | 33 | 1.4 | 2 |
| Juni 9 | 24.77 | 68 | 39.5 | 17 | 58.19 | 23 | 54.7 | 19 | 21.53 | 26 | 53.1 | 32 | 59.02 | 30 | 1.2 | 0 |
| 19 | 25.45 | 57 | 41.2 | 21 | 58.42 | 20 | 56.6 | 19 | 21.79 | 21 | 56.3 | 33 | 59.32 | 26 | 1.2 | 3 |
| 29 | 26.02 | 45 | 43.3 | 22 | 58.62 | 16 | 58.5 | 19 | 22.00 | 14 | 59.6 | 34 | 59.58 | 22 | 1.5 | 4 |
| Juli 9 | 26.47 | 32 | 45.5 | 25 | 58.78 | 12 | 60.4 | 17 | 22.14 | 8 | 63.0 | 35 | 59.80 | 16 | 1.9 | 6 |
| 19 | 26.79 | 19 | 48.0 | 26 | 58.90 | 8 | 62.1 | 16 | 22.22 | 1 | 66.5 | 33 | 59.96 | 12 | 2.5 | 8 |
| 29 | 26.98 | 4 | 50.6 | 26 | 58.98 | 4 | 63.7 | 15 | 22.23 | 5 | 69.8 | 32 | 60.08 | 5 | 3.3 | 9 |
| Aug. 8 | 27.02 | 10 | 53.2 | 26 | 59.02 | 1 | 65.2 | 12 | 22.18 | 11 | 73.0 | 30 | 60.13 | 1 | 4.2 | 10 |
| 18 | 26.92 | 24 | 55.8 | 24 | 59.01 | 6 | 66.4 | 10 | 22.07 | 17 | 76.0 | 27 | 60.14 | 5 | 5.2 | 10 |
| 28 | 26.68 | 36 | 58.2 | 21 | 58.95 | 8 | 67.4 | 9 | 21.90 | 22 | 78.7 | 24 | 60.09 | 9 | 6.2 | 10 |
| Sept. 7 | 26.32 | 46 | 60.3 | 19 | 58.87 | 12 | 68.3 | 5 | 21.68 | 27 | 81.1 | 20 | 60.00 | 13 | 7.2 | 9 |
| 17 | 25.86 | 54 | 62.2 | 14 | 58.75 | 14 | 68.8 | 4 | 21.41 | 30 | 83.1 | 15 | 59.87 | 17 | 8.1 | 8 |
| 27 | 25.32 | 61 | 63.6 | 10 | 58.61 | 16 | 69.2 | 1 | 21.11 | 32 | 84.6 | 11 | 59.70 | 18 | 8.9 | 6 |
| Okt. 7 | 24.71 | 63 | 64.6 | 5 | 58.45 | 16 | 69.3 | 1 | 20.79 | 33 | 85.7 | 5 | 59.52 | 19 | 9.5 | 5 |
| 17 | 24.08 | 64 | 65.1 | 1 | 58.29 | 16 | 69.2 | 3 | 20.46 | 33 | 86.2 | 1 | 59.33 | 19 | 10.0 | 3 |
| 27 | 23.44 | 60 | 65.0 | 6 | 58.13 | 15 | 68.9 | 6 | 20.13 | 33 | 86.3 | 5 | 59.14 | 17 | 10.3 | 1 |
| Nov. 6 | 22.84 | 55 | 64.4 | 11 | 57.98 | 12 | 68.3 | 7 | 19.80 | 30 | 85.8 | 10 | 58.97 | 15 | 10.4 | 2 |
| 16 | 22.29 | 46 | 63.3 | 16 | 57.86 | 10 | 67.6 | 10 | 19.50 | 26 | 84.8 | 16 | 58.82 | 12 | 10.2 | 3 |
| 26 | 21.83 | 35 | 61.7 | 21 | 57.76 | 7 | 66.6 | 11 | 19.24 | 23 | 83.2 | 20 | 58.70 | 7 | 9.9 | 6 |
| Dez. 6 | 21.48 | 22 | 59.6 | 24 | 57.69 | 2 | 65.5 | 13 | 19.01 | 18 | 81.2 | 25 | 58.63 | 3 | 9.3 | 7 |
| 16 | 21.26 | 10 | 57.2 | 27 | 57.67 | 1 | 64.2 | 14 | 18.83 | 12 | 78.7 | 28 | 58.60 | 2 | 8.6 | 8 |
| 26 | 21.16 | 5 | 54.5 | 29 | 57.68 | 4 | 62.8 | 15 | 18.71 | 6 | 75.9 | 31 | 58.62 | 7 | 7.8 | 10 |
| 36 | 21.21 | | 51.6 | | 57.72 | | 61.3 | | 18.65 | | 72.8 | | 58.69 | | 6.8 | |
| Mittl. Ort | 18.86 | | 47.2 | | 56.49 | | 61.8 | | 19.75 | | 68.2 | | 56.71 | | 3.6 | |
| | 748) | | | | 749) | | | | 750) | | | | 751) | | | |

| 1911 | γ Sagittae. $3^m.6$. AR. | | Dekl. + | | δ Pavonis. $3^m.5$. AR. | | Dekl. − | | ϑ Aquilae. $3^m.1$. AR. | | Dekl. − | | o¹ seq. Cygni. $4^m.3$. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $19^h 54^m$ | | 19° 14′ | | $19^h 59^m$ | | 66° 24′ | | $20^h 6^m$ | | 1° 5′ | | $20^h 10^m$ | | 46° 27′ | |
| Jan. 0 | 45.88 | 4 | 53.1 | 22 | 56.18 | 9 | 50.6 | 27 | 40.81 | 6 | 18.8 | 11 | 47.27 | 3 | 73.1 | 30 |
| 10 | 45.92 | 10 | 50.9 | 24 | 56.27 | 21 | 47.9 | 30 | 40.87 | 9 | 19.9 | 11 | 47.24 | — 2 | 70.1 | 31 |
| 20 | [17] 46.02 | 12 | 48.5 | 21 | [18] 56.48 | 29 | 44.9 | 27 | 40.96 | 14 | 21.0 | 10 | 47.26 | 9 | 67.0 | 35 |
| 30 | 46.14 | 16 | 46.4 | 19 | 56.77 | 38 | 42.2 | 26 | [20] 41.10 | 15 | 22.0 | 9 | [21] 47.35 | 14 | 63.5 | 30 |
| Febr. 9 | 46.30 | 19 | 44.5 | 18 | 57.15 | 44 | 39.6 | 26 | 41.25 | 19 | 22.9 | 6 | 47.49 | 18 | 60.5 | 27 |
| 19 | 46.49 | 22 | 42.7 | 13 | 57.59 | 52 | 37.0 | 24 | 41.44 | 21 | 23.5 | 5 | 47.67 | 23 | 57.8 | 24 |
| März 1 | 46.71 | 24 | 41.4 | 11 | 58.11 | 57 | 34.6 | 21 | 41.65 | 24 | 24.0 | 2 | 47.90 | 28 | 55.4 | 20 |
| 11 | 46.95 | 26 | 40.3 | 6 | 58.68 | 63 | 32.5 | 19 | 41.89 | 26 | 24.2 | — 1 | 48.18 | 31 | 53.4 | 15 |
| 21 | 47.21 | 29 | 39.7 | 1 | 59.31 | 65 | 30.6 | 15 | 42.15 | 27 | 24.1 | 4 | 48.49 | 34 | 51.9 | 8 |
| 31 | 47.50 | 29 | 39.6 | — 3 | 59.96 | 69 | 29.1 | 13 | 42.42 | 29 | 23.7 | 6 | 48.83 | 36 | 51.1 | 3 |
| April 10 | 47.79 | 31 | 39.9 | 7 | 60.65 | 71 | 27.8 | 9 | 42.71 | 30 | 23.1 | 10 | 49.19 | 38 | 50.8 | — 4 |
| 20 | 48.10 | 31 | 40.6 | 12 | 61.36 | 71 | 26.9 | 5 | 43.01 | 31 | 22.1 | 11 | 49.57 | 38 | 51.2 | 9 |
| 30 | 48.41 | 31 | 41.8 | 16 | 62.07 | 70 | 26.4 | 1 | 43.32 | 30 | 21.0 | 14 | 49.95 | 37 | 52.1 | 15 |
| Mai 10 | 48.72 | 29 | 43.4 | 18 | 62.77 | 68 | 26.3 | — 2 | 43.62 | 31 | 19.6 | 15 | 50.32 | 37 | 53.6 | 19 |
| 20 | 49.01 | 29 | 45.2 | 22 | 63.45 | 64 | 26.5 | 7 | 43.93 | 29 | 18.1 | 16 | 50.69 | 34 | 55.5 | 24 |
| 30 | 49.30 | 26 | 47.4 | 23 | 64.09 | 60 | 27.2 | 10 | 44.22 | 27 | 16.5 | 17 | 51.03 | 30 | 57.9 | 28 |
| Juni 9 | 49.56 | 23 | 49.7 | 25 | 64.69 | 54 | 28.2 | 14 | 44.49 | 25 | 14.8 | 17 | 51.33 | 27 | 60.7 | 31 |
| 19 | 49.79 | 19 | 52.2 | 25 | 65.23 | 47 | 29.6 | 17 | 44.74 | 21 | 13.1 | 17 | 51.60 | 22 | 63.8 | 32 |
| 29 | 49.98 | 16 | 54.7 | 24 | 65.70 | 38 | 31.3 | 20 | 44.95 | 18 | 11.4 | 15 | 51.82 | 17 | 67.0 | 33 |
| Juli 9 | 50.14 | 11 | 57.1 | 24 | 66.08 | 28 | 33.3 | 22 | 45.13 | 14 | 9.9 | 14 | 51.99 | 11 | 70.3 | 34 |
| 19 | 50.25 | 7 | 59.5 | 23 | 66.36 | 19 | 35.5 | 23 | 45.27 | 10 | 8.5 | 13 | 52.10 | 5 | 73.7 | 33 |
| 29 | 50.32 | 3 | 61.8 | 21 | 66.55 | 7 | 37.8 | 24 | 45.37 | 5 | 7.2 | 11 | 52.15 | — 1 | 77.0 | 31 |
| Aug. 8 | 50.35 | — 3 | 63.9 | 19 | 66.62 | — 2 | 40.2 | 24 | 45.42 | 1 | 6.1 | 9 | 52.14 | 6 | 80.1 | 30 |
| 18 | 50.32 | 6 | 65.8 | 17 | 66.60 | 13 | 42.6 | 23 | 45.43 | — 3 | 5.2 | 7 | 52.08 | 12 | 83.1 | 27 |
| 28 | 50.26 | 10 | 67.5 | 14 | 66.47 | 22 | 44.9 | 21 | 45.40 | 7 | 4.5 | 6 | 51.96 | 16 | 85.8 | 24 |
| Sept. 7 | 50.16 | 13 | 68.9 | 10 | 66.25 | 30 | 47.0 | 19 | 45.33 | 10 | 3.9 | 4 | 51.80 | 21 | 88.2 | 20 |
| 17 | 50.03 | 16 | 69.9 | 8 | 65.95 | 35 | 48.9 | 15 | 45.23 | 13 | 3.5 | 1 | 51.59 | 24 | 90.2 | 16 |
| 27 | 49.87 | 17 | 70.7 | 4 | 65.60 | 43 | 50.4 | 11 | 45.10 | 15 | 3.4 | 0 | 51.35 | 27 | 91.8 | 12 |
| Okt. 7 | 49.70 | 18 | 71.1 | 1 | 65.17 | 44 | 51.5 | 6 | 44.95 | 15 | 3.4 | 1 | 51.08 | 28 | 93.0 | 7 |
| 17 | 49.52 | 18 | 71.2 | — 2 | 64.73 | 43 | 52.1 | 2 | 44.80 | 15 | 3.5 | 3 | 50.80 | 28 | 93.7 | 2 |
| 27 | 49.34 | 16 | 71.0 | 6 | 64.30 | 40 | 52.3 | — 3 | 44.65 | 15 | 3.8 | 5 | 50.52 | 27 | 93.9 | — 3 |
| Nov. 6 | 49.18 | 14 | 70.4 | 9 | 63.90 | 38 | 52.0 | 9 | 44.50 | 12 | 4.3 | 6 | 50.25 | 26 | 93.6 | 8 |
| 16 | 49.04 | 12 | 69.5 | 12 | 63.52 | 32 | 51.1 | 13 | 44.38 | 10 | 4.9 | 7 | 49.99 | 23 | 92.8 | 13 |
| 26 | 48.92 | 9 | 68.3 | 15 | 63.20 | 23 | 49.8 | 17 | 44.28 | 7 | 5.6 | 8 | 49.76 | 20 | 91.5 | 18 |
| Dez. 6 | 48.83 | 5 | 66.8 | 17 | 62.97 | 17 | 48.1 | 21 | 44.21 | 3 | 6.4 | 9 | 49.56 | 15 | 89.7 | 22 |
| 16 | 48.78 | 2 | 65.1 | 20 | 62.80 | 5 | 46.0 | 23 | 44.18 | 0 | 7.3 | 10 | 49.41 | 11 | 87.5 | 26 |
| 26 | 48.76 | — 3 | 63.1 | 20 | 62.75 | — 4 | 43.7 | 26 | 44.18 | 4 | 8.3 | 10 | 49.30 | 5 | 84.9 | 29 |
| 36 | 48.79 | | 61.1 | | 62.79 | | 41.1 | | 44.22 | | 9.3 | | 49.25 | | 82.0 | |
| Mittl. Ort | 47.93 | | 59.3 | | 60.26 | | 35.7 | | 42.80 | | 9.9 | | 49.74 | | 75.3 | |
| | 752) | | | | 754) | | | | 756) | | | | 757) | | | |

| 1911 | κ Cephei. 4ᵐ.3. AR. | | Dekl. + | | 24 Vulpecul. 5ᵐ.7. AR. | | Dekl. + | | α² Capricorni. 3ᵐ.6. AR. | | Dekl. − | | α Pavonis. 1ᵐ.9. AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20ʰ 11ᵐ | | 77° 26′ | | 20ʰ 12ᵐ | | 24° 23′ | | 20ʰ 13ᵐ | | 12° 49′ | | 20ʰ 18ᵐ | | 57° 1′ | |
| Jan. 0 | 48.08 | 41 | 38.2 | 31 | 56.52 | 2 | 41.8 | 23 | 5.06 | 5 | 27.3 | 4 | 33.76 | 6 | 31.1 | 22 |
| 10 | 47.67 | 23 | 35.1 | 33 | 56.54 | 6 | 39.5 | 23 | 5.11 | 10 | 27.7 | 3 | 33.82 | 12 | 28.9 | 24 |
| 20 | 47.44 | 3 | 31.8 | 38 | 56.60 | 10 | 37.2 | 26 | 5.21 | 14 | 28.0 | 2 | 33.94 | 21 | 26.5 | 26 |
| 30 | 47.41 | 18 | 28.0 | 34 | 56.70 | 14 | 34.6 | 22 | 5.35 | 16 | 28.2 | 1 | 34.15 | 26 | 23.9 | 24 |
| Febr. 9 | 47.59 | 36 | 24.6 | 31 | 56.84 | 17 | 32.4 | 19 | 5.51 | 19 | 28.3 | 0 | 34.41 | 31 | 21.5 | 24 |
| 19 | 47.95 | 53 | 21.5 | 29 | 57.01 | 21 | 30.5 | 17 | 5.70 | 22 | 28.3 | 2 | 34.72 | 36 | 19.1 | 23 |
| März 1 | 48.48 | 68 | 18.6 | 25 | 57.22 | 23 | 28.8 | 12 | 5.92 | 24 | 28.1 | 3 | 35.08 | 40 | 16.8 | 21 |
| 11 | 49.16 | 81 | 16.1 | 19 | 57.45 | 26 | 27.6 | 8 | 6.16 | 27 | 27.8 | 5 | 35.48 | 44 | 14.7 | 19 |
| 21 | 49.97 | 91 | 14.2 | 14 | 57.71 | 28 | 26.8 | 4 | 6.43 | 28 | 27.3 | 7 | 35.92 | 48 | 12.8 | 18 |
| 31 | 50.88 | 97 | 12.8 | 7 | 57.99 | 30 | 26.4 | 2 | 6.71 | 29 | 26.6 | 9 | 36.40 | 51 | 11.0 | 15 |
| April 10 | 51.85 | 101 | 12.1 | 1 | 58.29 | 31 | 26.6 | 6 | 7.00 | 32 | 25.7 | 11 | 36.91 | 52 | 9.5 | 12 |
| 20 | 52.86 | 100 | 12.0 | 5 | 58.60 | 31 | 27.2 | 11 | 7.32 | 31 | 24.6 | 11 | 37.43 | 53 | 8.3 | 10 |
| 30 | 53.86 | 96 | 12.5 | 12 | 58.91 | 32 | 28.3 | 15 | 7.63 | 33 | 23.5 | 13 | 37.96 | 54 | 7.3 | 6 |
| Mai 10 | 54.82 | 90 | 13.7 | 17 | 59.23 | 31 | 29.8 | 19 | 7.96 | 31 | 22.2 | 13 | 38.50 | 52 | 6.7 | 2 |
| 20 | 55.72 | 80 | 15.4 | 22 | 59.54 | 29 | 31.7 | 22 | 8.27 | 31 | 20.9 | 13 | 39.02 | 50 | 6.5 | 1 |
| 30 | 56.52 | 69 | 17.6 | 27 | 59.83 | 27 | 33.9 | 24 | 8.58 | 28 | 19.6 | 13 | 39.52 | 48 | 6.6 | 4 |
| Juni 9 | 57.21 | 55 | 20.3 | 30 | 60.10 | 25 | 36.3 | 26 | 8.86 | 27 | 18.3 | 12 | 40.00 | 44 | 7.0 | 8 |
| 19 | 57.76 | 40 | 23.3 | 32 | 60.35 | 21 | 38.9 | 27 | 9.13 | 23 | 17.1 | 11 | 40.44 | 38 | 7.8 | 11 |
| 29 | 58.16 | 24 | 26.5 | 35 | 60.56 | 17 | 41.6 | 27 | 9.36 | 20 | 16.0 | 9 | 40.82 | 33 | 8.9 | 14 |
| Juli 9 | 58.40 | 7 | 30.0 | 36 | 60.73 | 13 | 44.3 | 27 | 9.56 | 16 | 15.1 | 8 | 41.15 | 26 | 10.3 | 16 |
| 19 | 58.47 | 10 | 33.6 | 35 | 60.86 | 9 | 47.0 | 26 | 9.72 | 11 | 14.3 | 6 | 41.41 | 18 | 11.9 | 18 |
| 29 | 58.37 | 27 | 37.1 | 35 | 60.95 | 4 | 49.6 | 24 | 9.83 | 7 | 13.7 | 4 | 41.59 | 10 | 13.7 | 20 |
| Aug. 8 | 58.10 | 43 | 40.6 | 33 | 60.99 | 2 | 52.0 | 22 | 9.90 | 2 | 13.3 | 3 | 41.69 | 3 | 15.7 | 21 |
| 18 | 57.67 | 58 | 43.9 | 32 | 60.97 | 5 | 54.2 | 19 | 9.92 | 2 | 13.0 | 1 | 41.72 | 6 | 17.8 | 20 |
| 28 | 57.09 | 72 | 47.1 | 28 | 60.92 | 10 | 56.1 | 17 | 9.90 | 7 | 12.9 | 0 | 41.66 | 12 | 19.8 | 19 |
| Sept. 7 | 56.37 | 83 | 49.9 | 25 | 60.82 | 13 | 57.8 | 14 | 9.83 | 9 | 12.9 | 1 | 41.54 | 19 | 21.7 | 17 |
| 17 | 55.54 | 93 | 52.4 | 22 | 60.69 | 15 | 59.2 | 10 | 9.74 | 13 | 13.0 | 2 | 41.35 | 24 | 23.4 | 15 |
| 27 | 54.61 | 101 | 54.6 | 16 | 60.54 | 18 | 60.2 | 7 | 9.61 | 14 | 13.2 | 3 | 41.11 | 28 | 24.9 | 12 |
| Okt. 7 | 53.60 | 106 | 56.2 | 11 | 60.36 | 18 | 60.9 | 3 | 9.47 | 15 | 13.5 | 3 | 40.83 | 30 | 26.1 | 8 |
| 17 | 52.54 | 109 | 57.3 | 7 | 60.18 | 19 | 61.2 | 1 | 9.32 | 16 | 13.8 | 4 | 40.53 | 31 | 26.9 | 4 |
| 27 | 51.45 | 109 | 58.0 | 1 | 59.99 | 18 | 61.1 | 4 | 9.16 | 14 | 14.2 | 4 | 40.22 | 30 | 27.3 | 0 |
| Nov. 6 | 50.36 | 106 | 58.1 | 6 | 59.81 | 16 | 60.7 | 8 | 9.02 | 12 | 14.6 | 4 | 39.92 | 27 | 27.3 | 4 |
| 16 | 49.30 | 100 | 57.5 | 10 | 59.65 | 14 | 59.9 | 11 | 8.90 | 10 | 15.0 | 4 | 39.65 | 23 | 26.9 | 9 |
| 26 | 48.30 | 91 | 56.5 | 16 | 59.51 | 10 | 58.8 | 15 | 8.80 | 7 | 15.4 | 4 | 39.42 | 18 | 26.0 | 12 |
| Dez. 6 | 47.39 | 80 | 54.9 | 22 | 59.41 | 8 | 57.3 | 18 | 8.73 | 4 | 15.8 | 4 | 39.24 | 12 | 24.8 | 16 |
| 16 | 46.59 | 66 | 52.7 | 25 | 59.33 | 4 | 55.5 | 21 | 8.69 | 1 | 16.2 | 4 | 39.12 | 5 | 23.2 | 19 |
| 26 | 45.93 | 50 | 50.2 | 30 | 59.29 | 0 | 53.4 | 22 | 8.70 | 4 | 16.6 | 3 | 39.07 | 2 | 21.3 | 22 |
| 36 | 45.43 | | 47.2 | | 59.29 | | 51.2 | | 8.74 | | 16.9 | | 39.09 | | 19.1 | |
| Mittl. Ort | 54.25 | | 37.7 | | 58.58 | | 46.9 | | 7.07 | | 16.6 | | 36.81 | | 15.2 | |
| | 759) | | | | 760) | | | | 761) | | | | 764) | | | |

| 1911 | γ Cygni. $2^m.3$. AR. | | Dekl. + | | θ Cephei. $4^m.1$. AR. | | Dekl. + | | ε Delphini. $3^m.9$. AR. | | Dekl. + | | α Indi. $3^m.0$. AR. | | Dekl. − | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $20^h\ 18^m$ | | $39°\ 57'$ | | $20^h\ 28^m$ | | $62°\ 41'$ | | $20^h\ 28^m$ | | $10°\ 59'$ | | $20^h\ 31^m$ | | $47°\ 36'$ | |
| | s | | " | | s | | " | | s | | " | | s | | " | |
| Jan. 0 | 59.73 | 2 | 74.2 | 28 | 2.12 | 15 | 41.6 | 31 | 55.72 | 2 | 53.7 | 16 | 16.14 | 4 | 24.8 | 17 |
| 10 | 59.71 | 3 | 71.4 | 29 | 1.97 | 8 | 38.5 | 33 | 55.74 | 6 | 52.1 | 17 | 16.18 | 10 | 23.1 | 18 |
| 20 | 59.74 | 8 | 68.5 | 32 | 1.89 | 2 | 35.2 | 37 | 55.80 | 10 | 50.4 | 17 | 16.28 | 16 | 21.3 | 22 |
| 30 | [23] 59.82 | 13 | 65.3 | 28 | [25] 1.91 | 11 | 31.5 | 33 | [25] 55.90 | 13 | 48.7 | 15 | [26] 16.44 | 20 | 19.1 | 20 |
| Febr. 9 | 59.95 | 17 | 62.5 | 26 | 2.02 | 19 | 28.2 | 31 | 56.03 | 16 | 47.2 | 13 | 16.64 | 24 | 17.1 | 21 |
| 19 | 60.12 | 21 | 59.9 | 23 | 2.21 | 27 | 25.1 | 29 | 56.19 | 19 | 45.9 | 10 | 16.88 | 28 | 15.0 | 20 |
| März 1 | 60.33 | 25 | 57.6 | 18 | 2.48 | 34 | 22.2 | 24 | 56.38 | 22 | 44.9 | 7 | 17.16 | 32 | 13.0 | 19 |
| 11 | 60.58 | 28 | 55.8 | 13 | 2.82 | 40 | 19.8 | 19 | 56.60 | 24 | 44.2 | 4 | 17.48 | 36 | 11.1 | 19 |
| 21 | 60.86 | 31 | 54.5 | 8 | 3.22 | 46 | 17.9 | 14 | 56.84 | 26 | 43.8 | 1 | 17.84 | 38 | 9.2 | 17 |
| 31 | 61.17 | 33 | 53.7 | 2 | 3.68 | 49 | 16.5 | 7 | 57.10 | 28 | 43.9 | 4 | 18.22 | 41 | 7.5 | 16 |
| April 10 | 61.50 | 35 | 53.5 | 4 | 4.17 | 51 | 15.8 | 1 | 57.38 | 29 | 44.3 | 7 | 18.63 | 42 | 5.9 | 14 |
| 20 | 61.85 | 35 | 53.9 | 9 | 4.68 | 53 | 15.7 | 6 | 57.67 | 31 | 45.0 | 12 | 19.05 | 44 | 4.5 | 12 |
| 30 | 62.20 | 35 | 54.8 | 14 | 5.21 | 51 | 16.3 | 11 | 57.98 | 31 | 46.2 | 14 | 19.49 | 45 | 3.3 | 9 |
| Mai 10 | 62.55 | 35 | 56.2 | 19 | 5.72 | 50 | 17.4 | 17 | 58.29 | 30 | 47.6 | 18 | 19.94 | 44 | 2.4 | 7 |
| 20 | 62.90 | 32 | 58.1 | 24 | 6.22 | 46 | 19.1 | 22 | 58.59 | 30 | 49.4 | 19 | 20.38 | 43 | 1.7 | 3 |
| 30 | 63.22 | 30 | 60.5 | 27 | 6.68 | 42 | 21.3 | 27 | 58.89 | 28 | 51.3 | 21 | 20.81 | 41 | 1.4 | 1 |
| Juni 9 | 63.52 | 26 | 63.2 | 29 | 7.10 | 36 | 24.0 | 31 | 59.17 | 26 | 53.4 | 22 | 21.22 | 38 | 1.3 | 3 |
| 19 | 63.78 | 23 | 66.1 | 31 | 7.46 | 29 | 27.1 | 33 | 59.43 | 23 | 55.6 | 22 | 21.60 | 34 | 1.6 | 5 |
| 29 | 64.01 | 17 | 69.2 | 31 | 7.75 | 21 | 30.4 | 34 | 59.66 | 19 | 57.8 | 22 | 21.94 | 29 | 2.1 | 9 |
| Juli 9 | 64.18 | 13 | 72.3 | 33 | 7.96 | 13 | 33.8 | 36 | 59.85 | 15 | 60.0 | 21 | 22.23 | 24 | 3.0 | 11 |
| 19 | 64.31 | 7 | 75.6 | 31 | 8.09 | 5 | 37.4 | 36 | 60.00 | 11 | 62.1 | 20 | 22.47 | 17 | 4.1 | 13 |
| 29 | 64.38 | 2 | 78.7 | 30 | 8.14 | 3 | 41.0 | 35 | 60.11 | 6 | 64.1 | 18 | 22.64 | 11 | 5.4 | 15 |
| Aug. 8 | 64.40 | 3 | 81.7 | 28 | 8.11 | 12 | 44.5 | 34 | 60.17 | 2 | 65.9 | 16 | 22.75 | 5 | 6.9 | 16 |
| 18 | 64.37 | 9 | 84.5 | 26 | 7.99 | 20 | 47.9 | 32 | 60.19 | 2 | 67.5 | 14 | 22.80 | 2 | 8.5 | 16 |
| 28 | 64.28 | 13 | 87.1 | 23 | 7.79 | 26 | 51.1 | 29 | 60.17 | 6 | 68.9 | 12 | 22.78 | 8 | 10.1 | 17 |
| Sept. 7 | 64.15 | 17 | 89.4 | 19 | 7.53 | 33 | 54.0 | 25 | 60.11 | 10 | 70.1 | 9 | 22.70 | 13 | 11.8 | 15 |
| 17 | 63.98 | 19 | 91.3 | 16 | 7.20 | 38 | 56.5 | 22 | 60.01 | 13 | 71.0 | 7 | 22.57 | 17 | 13.3 | 14 |
| 27 | 63.79 | 23 | 92.9 | 11 | 6.82 | 42 | 58.7 | 17 | 59.88 | 14 | 71.7 | 4 | 22.40 | 21 | 14.7 | 11 |
| Okt. 7 | 63.56 | 24 | 94.0 | 7 | 6.40 | 44 | 60.4 | 12 | 59.74 | 16 | 72.1 | 1 | 22.19 | 23 | 15.8 | 9 |
| 17 | 63.32 | 24 | 94.7 | 2 | 5.96 | 47 | 61.6 | 7 | 59.58 | 15 | 72.2 | 1 | 21.96 | 23 | 16.7 | 6 |
| 27 | 63.08 | 23 | 94.9 | 3 | 5.49 | 46 | 62.3 | 1 | 59.43 | 16 | 72.1 | 4 | 21.73 | 23 | 17.3 | 2 |
| Nov. 6 | 62.85 | 22 | 94.6 | 8 | 5.03 | 45 | 62.4 | 5 | 59.27 | 14 | 71.7 | 6 | 21.50 | 21 | 17.5 | 2 |
| 16 | 62.63 | 20 | 93.8 | 12 | 4.58 | 42 | 61.9 | 10 | 59.13 | 11 | 71.1 | 9 | 21.29 | 18 | 17.3 | 5 |
| 26 | 62.43 | 16 | 92.6 | 16 | 4.16 | 38 | 60.9 | 15 | 59.02 | 9 | 70.2 | 11 | 21.11 | 14 | 16.8 | 8 |
| Dez. 6 | 62.27 | 13 | 91.0 | 21 | 3.78 | 32 | 59.4 | 21 | 58.93 | 6 | 69.1 | 13 | 20.97 | 9 | 16.0 | 11 |
| 16 | 62.14 | 9 | 88.9 | 24 | 3.46 | 26 | 57.3 | 25 | 58.87 | 3 | 67.8 | 15 | 20.88 | 4 | 14.9 | 14 |
| 26 | 62.05 | 4 | 86.5 | 27 | 3.20 | 20 | 54.8 | 29 | 58.84 | 0 | 66.3 | 15 | 20.84 | 1 | 13.5 | 16 |
| 36 | 62.01 | | 83.8 | | 3.00 | | 51.9 | | 58.84 | | 64.8 | | 20.85 | | 11.9 | |
| Mittl. Ort | 62.02 | | 76.8 | | 5.42 | | 41.0 | | 57.67 | | 60.6 | | 18.65 | | 8.9 | |
| | 765) | | | | 767) | | | | 768) | | | | 769) | | | |

| 1911 | 73 Draconis. $5^m.3$. | | | | β Delphini. $3^m.5$. | | | | υ Capricorni. $5^m.5$. | | | | α Delphini. $3^m.7$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. — | | AR. | | Dekl. + | |
| | $20^h 32^m$ | | $74° 38'$ | | $20^h 33^m$ | | $14° 16'$ | | $20^h 34^m$ | | $18° 27'$ | | $20^h 35^m$ | | $15° 35'$ | |
| Jan. 0 | $36^s.47$ | 37 | $61''.0$ | 30 | $20^s.59$ | 1 | $59''.6$ | 18 | $57^s.14$ | 3 | $21''.4$ | 0 | $28^s.30$ | 1 | $45''.0$ | 18 |
| 10 | 36.10 | 24 | 58.0 | 32 | 20.60 | 5 | 57.8 | 18 | 57.17 | 8 | 21.4 | 1 | 28.31 | 5 | 43.2 | 19 |
| 20 | 35.86 | 8 | 54.8 | 37 | 20.65 | 10 | 56.0 | 19 | 57.25 | 12 | 21.3 | 2 | 28.36 | 9 | 41.3 | 20 |
| 30 | [26] 35.78 | 9 | 51.1 | 34 | [26] 20.75 | 12 | 54.1 | 17 | [26] 57.37 | 14 | 21.1 | 3 | [27] 28.45 | 12 | 39.3 | 17 |
| Febr. 9 | 35.87 | 24 | 47.7 | 33 | 20.87 | 15 | 52.4 | 14 | 57.51 | 18 | 20.8 | 4 | 28.57 | 15 | 37.6 | 15 |
| 19 | 36.11 | 39 | 44.4 | 29 | 21.02 | 19 | 51.0 | 12 | 57.69 | 20 | 20.4 | 6 | 28.72 | 19 | 36.1 | 13 |
| März 1 | 36.50 | 52 | 41.5 | 26 | 21.21 | 21 | 49.8 | 9 | 57.89 | 23 | 19.8 | 7 | 28.91 | 21 | 34.8 | 9 |
| 11 | 37.02 | 63 | 38.9 | 21 | 21.42 | 23 | 48.9 | 5 | 58.12 | 26 | 19.1 | 8 | 29.12 | 23 | 33.9 | 5 |
| 21 | 37.65 | 72 | 36.8 | 16 | 21.65 | 27 | 48.4 | 0 | 58.38 | 28 | 18.3 | 10 | 29.35 | 26 | 33.4 | 1 |
| 31 | 38.37 | 80 | 35.2 | 10 | 21.92 | 28 | 48.4 | 3 | 58.66 | 29 | 17.3 | 11 | 29.61 | 28 | 33.3 | 2 |
| April 10 | 39.17 | 83 | 34.2 | 3 | 22.20 | 29 | 48.7 | 7 | 58.95 | 32 | 16.2 | 12 | 29.89 | 30 | 33.5 | 7 |
| 20 | 40.00 | 84 | 33.9 | 3 | 22.49 | 31 | 49.4 | 11 | 59.27 | 32 | 15.0 | 13 | 30.19 | 31 | 34.2 | 11 |
| 30 | 40.84 | 83 | 34.2 | 9 | 22.80 | 31 | 50.5 | 14 | 59.59 | 33 | 13.7 | 14 | 30.50 | 31 | 35.3 | 14 |
| Mai 10 | 41.67 | 79 | 35.1 | 16 | 23.11 | 31 | 51.9 | 18 | 59.92 | 33 | 12.3 | 13 | 30.81 | 31 | 36.7 | 18 |
| 20 | 42.46 | 72 | 36.7 | 20 | 23.42 | 30 | 53.7 | 20 | 60.25 | 32 | 11.0 | 12 | 31.12 | 30 | 38.5 | 20 |
| 30 | 43.18 | 64 | 38.7 | 25 | 23.72 | 28 | 55.7 | 22 | 60.57 | 31 | 9.8 | 12 | 31.42 | 28 | 40.5 | 22 |
| Juni 9 | 43.82 | 54 | 41.2 | 29 | 24.00 | 26 | 57.9 | 23 | 60.88 | 29 | 8.6 | 11 | 31.70 | 26 | 42.7 | 23 |
| 19 | 44.36 | 41 | 44.1 | 32 | 24.26 | 23 | 60.2 | 23 | 61.17 | 26 | 7.5 | 9 | 31.96 | 23 | 45.0 | 24 |
| 29 | 44.77 | 30 | 47.3 | 34 | 24.49 | 20 | 62.5 | 23 | 61.43 | 22 | 6.6 | 7 | 32.19 | 20 | 47.4 | 24 |
| Juli 9 | 45.07 | 15 | 50.7 | 36 | 24.69 | 15 | 64.8 | 23 | 61.65 | 19 | 5.9 | 6 | 32.39 | 16 | 49.8 | 24 |
| 19 | 45.22 | 1 | 54.3 | 36 | 24.84 | 11 | 67.1 | 22 | 61.84 | 14 | 5.3 | 3 | 32.55 | 11 | 52.2 | 22 |
| 29 | 45.23 | 12 | 57.9 | 36 | 24.95 | 7 | 69.3 | 20 | 61.98 | 9 | 5.0 | 2 | 32.66 | 7 | 54.4 | 21 |
| Aug. 8 | 45.11 | 26 | 61.5 | 35 | 25.02 | 2 | 71.3 | 18 | 62.07 | 4 | 4.8 | 0 | 32.73 | 2 | 56.5 | 19 |
| 18 | 44.85 | 40 | 65.0 | 34 | 25.04 | 2 | 73.1 | 16 | 62.11 | 0 | 4.8 | 2 | 32.75 | 2 | 58.4 | 16 |
| 28 | 44.45 | 50 | 68.4 | 30 | 25.02 | 7 | 74.7 | 13 | 62.11 | 5 | 5.0 | 3 | 32.73 | 7 | 60.0 | 14 |
| Sept. 7 | 43.95 | 61 | 71.4 | 27 | 24.95 | 9 | 76.0 | 11 | 62.06 | 8 | 5.3 | 4 | 32.66 | 9 | 61.4 | 12 |
| 17 | 43.34 | 70 | 74.1 | 24 | 24.86 | 13 | 77.1 | 8 | 61.98 | 11 | 5.7 | 4 | 32.57 | 13 | 62.6 | 8 |
| 27 | 42.64 | 78 | 76.5 | 19 | 24.73 | 14 | 77.9 | 5 | 61.87 | 14 | 6.1 | 5 | 32.44 | 15 | 63.4 | 6 |
| Okt. 7 | 41.86 | 83 | 78.4 | 15 | 24.59 | 16 | 78.4 | 2 | 61.73 | 15 | 6.6 | 5 | 32.29 | 16 | 64.0 | 2 |
| 17 | 41.03 | 85 | 79.9 | 9 | 24.43 | 16 | 78.6 | 0 | 61.58 | 15 | 7.1 | 5 | 32.13 | 16 | 64.2 | 0 |
| 27 | 40.18 | 87 | 80.8 | 4 | 24.27 | 16 | 78.6 | 4 | 61.43 | 15 | 7.6 | 4 | 31.97 | 16 | 64.2 | 3 |
| Nov. 6 | 39.31 | 86 | 81.2 | 2 | 24.11 | 14 | 78.2 | 6 | 61.28 | 13 | 8.0 | 3 | 31.81 | 14 | 63.9 | 6 |
| 16 | 38.45 | 81 | 81.0 | 8 | 23.97 | 12 | 77.6 | 9 | 61.15 | 11 | 8.3 | 3 | 31.67 | 13 | 63.3 | 9 |
| 26 | 37.64 | 76 | 80.2 | 14 | 23.85 | 10 | 76.7 | 12 | 61.04 | 9 | 8.6 | 3 | 31.54 | 10 | 62.4 | 12 |
| Dez. 6 | 36.88 | 68 | 78.8 | 19 | 23.75 | 7 | 75.5 | 13 | 60.95 | 5 | 8.9 | 1 | 31.44 | 7 | 61.2 | 14 |
| 16 | 36.20 | 57 | 76.9 | 24 | 23.68 | 4 | 74.2 | 16 | 60.90 | 1 | 9.0 | 1 | 31.37 | 4 | 59.8 | 16 |
| 26 | 35.63 | 45 | 74.5 | 28 | 23.64 | 0 | 72.6 | 17 | 60.89 | 2 | 9.1 | 1 | 31.33 | 0 | 58.2 | 17 |
| 36 | 35.18 | | 71.7 | | 23.64 | | 70.9 | | 60.91 | | 9.2 | | 31.33 | | 56.5 | |
| Mittl. Ort | 41.64 | | 59.1 | | 22.53 | | 65.9 | | 59.11 | | 9.4 | | 30.25 | | 51.0 | |
| | 770) | | | | 771) | | | | 773) | | | | 774) | | | |

| 1911 | β Pavonis. 3ᵐ.3. AR. | Δ | Dekl. − | Δ | α Cygni. 1ᵐ.3. AR. | Δ | Dekl. + | Δ | ε Cygni. 2ᵐ.4. AR. | Δ | Dekl. + | Δ | ε Aquarii. 3ᵐ.6. AR. | Δ | Dekl. − | Δ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20ʰ 36ᵐ | | 66° 31′ | | 20ʰ 38ᵐ | | 44° 57′ | | 20ʰ 42ᵐ | | 33° 37′ | | 20ʰ 42ᵐ | | 9° 49′ | |
| Jan. 0 | 53.38 | 1 | 43.3 | 26 | 21.47 | 6 | 41.7 | 28 | 34.46 | 3 | 68.5 | 25 | 49.66 | 2 | 30.2 | 5 |
| 10 | 53.37 | 9 | 40.7 | 28 | 21.41 | 1 | 38.9 | 29 | 34.43 | 1 | 66.0 | 25 | 49.68 | 6 | 30.7 | 4 |
| 20 | 53.46 | 20 | 37.9 | 31 | 21.40 | 5 | 36.0 | 33 | 34.44 | 7 | 63.5 | 29 | 49.74 | 11 | 31.1 | 4 |
| 30 | 53.66 | 27 | 34.7 | 29 | 21.45 | 10 | 32.7 | 30 | 34.51 | 10 | 60.6 | 25 | 49.85 | 13 | 31.5 | 2 |
| Febr. 9 | 53.93 | 36 | 31.8 | 29 | 21.55 | 15 | 29.7 | 27 | 34.61 | 14 | 58.1 | 24 | 49.98 | 16 | 31.7 | 0 |
| 19 | 54.29 | 43 | 28.9 | 27 | 21.70 | 19 | 27.0 | 25 | 34.75 | 18 | 55.7 | 20 | 50.14 | 18 | 31.7 | 1 |
| März 1 | 54.72 | 49 | 26.2 | 26 | 21.89 | 24 | 24.5 | 21 | 34.93 | 22 | 53.7 | 17 | 50.32 | 22 | 31.6 | 3 |
| 11 | 55.21 | 55 | 23.6 | 24 | 22.13 | 28 | 22.4 | 16 | 35.15 | 25 | 52.0 | 13 | 50.54 | 24 | 31.3 | 5 |
| 21 | 55.76 | 61 | 21.2 | 22 | 22.41 | 32 | 20.8 | 10 | 35.40 | 28 | 50.7 | 7 | 50.78 | 26 | 30.8 | 7 |
| 31 | 56.37 | 65 | 19.0 | 18 | 22.73 | 34 | 19.8 | 5 | 35.68 | 30 | 50.0 | 2 | 51.04 | 28 | 30.1 | 10 |
| April 10 | 57.02 | 68 | 17.2 | 14 | 23.07 | 36 | 19.3 | 1 | 35.98 | 33 | 49.8 | 3 | 51.32 | 30 | 29.1 | 11 |
| 20 | 57.70 | 69 | 15.8 | 11 | 23.43 | 38 | 19.4 | 7 | 36.31 | 33 | 50.1 | 8 | 51.62 | 31 | 28.0 | 13 |
| 30 | 58.39 | 70 | 14.7 | 7 | 23.81 | 37 | 20.1 | 13 | 36.64 | 34 | 50.9 | 14 | 51.93 | 32 | 26.7 | 14 |
| Mai 10 | 59.09 | 69 | 14.0 | 3 | 24.18 | 37 | 21.4 | 17 | 36.98 | 34 | 52.3 | 17 | 52.25 | 32 | 25.3 | 15 |
| 20 | 59.78 | 67 | 13.7 | 1 | 24.55 | 35 | 23.1 | 23 | 37.32 | 32 | 54.0 | 22 | 52.57 | 31 | 23.8 | 15 |
| 30 | 60.45 | 64 | 13.8 | 6 | 24.90 | 33 | 25.4 | 26 | 37.64 | 30 | 56.2 | 25 | 52.88 | 30 | 22.3 | 16 |
| Juni 9 | 61.09 | 59 | 14.4 | 9 | 25.23 | 29 | 28.0 | 29 | 37.94 | 28 | 58.7 | 28 | 53.18 | 28 | 20.7 | 14 |
| 19 | 61.68 | 52 | 15.3 | 13 | 25.52 | 25 | 30.9 | 31 | 38.22 | 24 | 61.5 | 29 | 53.46 | 25 | 19.3 | 14 |
| 29 | 62.20 | 44 | 16.6 | 17 | 25.77 | 21 | 34.0 | 33 | 38.46 | 20 | 64.4 | 30 | 53.71 | 22 | 17.9 | 12 |
| Juli 9 | 62.64 | 36 | 18.3 | 19 | 25.98 | 15 | 37.3 | 34 | 38.66 | 16 | 67.4 | 31 | 53.93 | 18 | 16.7 | 10 |
| 19 | 63.00 | 26 | 20.2 | 22 | 26.13 | 9 | 40.7 | 33 | 38.82 | 11 | 70.5 | 30 | 54.11 | 14 | 15.7 | 9 |
| 29 | 63.26 | 15 | 22.4 | 24 | 26.22 | 4 | 44.0 | 32 | 38.93 | 6 | 73.5 | 29 | 54.25 | 9 | 14.8 | 7 |
| Aug. 8 | 63.41 | 5 | 24.8 | 24 | 26.26 | 2 | 47.2 | 31 | 38.99 | 1 | 76.4 | 27 | 54.34 | 5 | 14.1 | 5 |
| 18 | 63.46 | 6 | 27.2 | 24 | 26.24 | 8 | 50.3 | 29 | 39.00 | 4 | 79.1 | 25 | 54.39 | 0 | 13.6 | 4 |
| 28 | 63.40 | 15 | 29.6 | 24 | 26.16 | 13 | 53.2 | 25 | 38.96 | 9 | 81.6 | 22 | 54.39 | 3 | 13.2 | 1 |
| Sept. 7 | 63.25 | 25 | 32.0 | 21 | 26.03 | 17 | 55.7 | 23 | 38.87 | 13 | 83.8 | 19 | 54.36 | 8 | 13.1 | 0 |
| 17 | 63.00 | 32 | 34.1 | 18 | 25.86 | 21 | 58.0 | 18 | 38.74 | 16 | 85.7 | 16 | 54.28 | 10 | 13.1 | 1 |
| 27 | 62.68 | 38 | 35.9 | 14 | 25.65 | 23 | 59.8 | 15 | 38.58 | 18 | 87.3 | 12 | 54.18 | 13 | 13.2 | 3 |
| Okt. 7 | 62.30 | 42 | 37.3 | 11 | 25.42 | 25 | 61.3 | 10 | 38.40 | 19 | 88.5 | 8 | 54.05 | 14 | 13.5 | 3 |
| 17 | 61.88 | 45 | 38.4 | 6 | 25.17 | 26 | 62.3 | 5 | 38.21 | 21 | 89.3 | 3 | 53.91 | 15 | 13.8 | 4 |
| 27 | 61.43 | 43 | 39.0 | 0 | 24.91 | 26 | 62.8 | 0 | 38.00 | 20 | 89.6 | 1 | 53.76 | 14 | 14.2 | 4 |
| Nov. 6 | 61.00 | 41 | 39.0 | 4 | 24.65 | 25 | 62.8 | 5 | 37.80 | 19 | 89.5 | 5 | 53.62 | 13 | 14.6 | 4 |
| 16 | 60.59 | 37 | 38.6 | 10 | 24.40 | 23 | 62.3 | 10 | 37.61 | 18 | 89.0 | 9 | 53.49 | 11 | 15.0 | 6 |
| 26 | 60.22 | 31 | 37.6 | 14 | 24.17 | 20 | 61.3 | 15 | 37.43 | 15 | 88.1 | 14 | 53.38 | 9 | 15.6 | 5 |
| Dez. 6 | 59.91 | 23 | 36.2 | 19 | 23.97 | 17 | 59.8 | 19 | 37.28 | 11 | 86.7 | 17 | 53.29 | 5 | 16.1 | 5 |
| 16 | 59.68 | 15 | 34.3 | 22 | 23.80 | 13 | 57.9 | 23 | 37.17 | 9 | 85.0 | 21 | 53.24 | 2 | 16.6 | 5 |
| 26 | 59.53 | 5 | 32.1 | 25 | 23.67 | 8 | 55.6 | 26 | 37.08 | 4 | 82.9 | 23 | 53.22 | 1 | 17.1 | 5 |
| 36 | 59.48 | | 29.6 | | 23.59 | | 53.0 | | 37.04 | | 80.6 | | 53.23 | | 17.6 | |
| Mittl. Ort | 57.04 | | 25.6 | | 23.85 | | 42.6 | | 36.58 | | 71.1 | | 51.56 | | 19.6 | |
| | 775) | | | | 777) | | | | 780) | | | | 781) | | | |

| 1911 | η Cephei. $3^m.5$. AR. | | η Cephei. Dekl. + | | λ Cygni. $4^m.6$. AR. | | λ Cygni. Dekl. + | | β Indi. $3^m.6$. AR. | | β Indi. Dekl. − | | 32 Vulpecul. $5^m.3$. AR. | | 32 Vulpecul. Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $20^h 43^m$ | | 61° 29′ | | $20^h 43^m$ | | 36° 9′ | | $20^h 47^m$ | | 58° 47′ | | $20^h 50^m$ | | 27° 42′ | |
| Jan. 0 | 25.72 | 17 | 35.6 | 28 | 54.31 | 4 | 45.5 | 25 | 48.76 | 0 | 43.8 | 23 | 43.97 | 2 | 63.8 | 22 |
| 10 | 25.55 | 9 | 32.8 | 32 | 54.27 | 1 | 43.0 | 27 | 48.76 | 8 | 41.5 | 24 | 43.95 | 1 | 61.6 | 23 |
| 20 | 25.46 | 1 | 29.6 | 36 | 54.28 | 6 | 40.3 | 30 | 48.84 | 14 | 39.1 | 25 | 43.96 | 5 | 59.3 | 24 |
| 30 | 25.45 | 7 | 26.0 | 33 | 54.34 | 10 | 37.3 | 26 | 48.98 | 21 | 36.6 | 30 | 44.01 | 11 | 56.9 | 25 |
| Febr. 9 | 25.52 | 16 | 22.7 | 31 | 54.44 | 14 | 34.7 | 24 | 49.19 | 26 | 33.6 | 26 | 44.12 | 13 | 54.4 | 21 |
| 19 | 25.68 | 23 | 19.6 | 29 | 54.58 | 17 | 32.3 | 22 | 49.45 | 32 | 31.0 | 26 | 44.25 | 17 | 52.3 | 18 |
| März 1 | 25.91 | 31 | 16.7 | 25 | 54.75 | 22 | 30.1 | 18 | 49.77 | 38 | 28.4 | 25 | 44.42 | 20 | 50.5 | 15 |
| 11 | 26.22 | 37 | 14.2 | 20 | 54.97 | 26 | 28.3 | 13 | 50.15 | 42 | 25.9 | 23 | 44.62 | 23 | 49.0 | 11 |
| 21 | 26.59 | 42 | 12.2 | 14 | 55.23 | 28 | 27.0 | 9 | 50.57 | 46 | 23.6 | 22 | 44.85 | 27 | 47.9 | 5 |
| 31 | 27.01 | 46 | 10.8 | 9 | 55.51 | 31 | 26.1 | 3 | 51.03 | 50 | 21.4 | 19 | 45.12 | 29 | 47.4 | 2 |
| April 10 | 27.47 | 49 | 9.9 | 2 | 55.82 | 33 | 25.8 | 3 | 51.53 | 53 | 19.5 | 16 | 45.41 | 30 | 47.2 | 4 |
| 20 | 27.96 | 51 | 9.7 | 4 | 56.15 | 34 | 26.1 | 7 | 52.06 | 54 | 17.9 | 13 | 45.71 | 32 | 47.6 | 9 |
| 30 | 28.47 | 51 | 10.1 | 10 | 56.49 | 34 | 26.8 | 13 | 52.60 | 56 | 16.6 | 10 | 46.03 | 33 | 48.5 | 13 |
| Mai 10 | 28.98 | 50 | 11.1 | 16 | 56.83 | 35 | 28.1 | 18 | 53.16 | 55 | 15.6 | 6 | 46.36 | 33 | 49.8 | 18 |
| 20 | 29.48 | 47 | 12.7 | 21 | 57.18 | 32 | 29.9 | 22 | 53.71 | 54 | 15.0 | 2 | 46.69 | 31 | 51.6 | 21 |
| 30 | 29.95 | 42 | 14.8 | 26 | 57.50 | 31 | 32.1 | 25 | 54.25 | 52 | 14.8 | 1 | 47.00 | 30 | 53.7 | 24 |
| Juni 9 | 30.37 | 37 | 17.4 | 30 | 57.81 | 28 | 34.6 | 28 | 54.77 | 48 | 14.9 | 5 | 47.30 | 28 | 56.1 | 26 |
| 19 | 30.74 | 31 | 20.4 | 32 | 58.09 | 25 | 37.4 | 30 | 55.25 | 44 | 15.4 | 9 | 47.58 | 25 | 58.7 | 27 |
| 29 | 31.05 | 24 | 23.6 | 35 | 58.34 | 20 | 40.4 | 30 | 55.69 | 38 | 16.3 | 13 | 47.83 | 20 | 61.4 | 29 |
| Juli 9 | 31.29 | 17 | 27.1 | 36 | 58.54 | 16 | 43.4 | 31 | 56.07 | 31 | 17.6 | 16 | 48.03 | 17 | 64.3 | 28 |
| 19 | 31.46 | 8 | 30.7 | 36 | 58.70 | 11 | 46.5 | 31 | 56.38 | 23 | 19.2 | 18 | 48.20 | 12 | 67.1 | 28 |
| 29 | 31.54 | 1 | 34.3 | 36 | 58.81 | 5 | 49.6 | 30 | 56.61 | 16 | 21.0 | 20 | 48.32 | 7 | 69.9 | 27 |
| Aug. 8 | 31.55 | 8 | 37.9 | 35 | 58.86 | 1 | 52.6 | 28 | 56.77 | 7 | 23.0 | 21 | 48.39 | 3 | 72.6 | 25 |
| 18 | 31.47 | 15 | 41.4 | 33 | 58.87 | 5 | 55.4 | 26 | 56.84 | 1 | 25.1 | 22 | 48.42 | 3 | 75.1 | 23 |
| 28 | 31.32 | 23 | 44.7 | 30 | 58.82 | 9 | 58.0 | 23 | 56.83 | 9 | 27.3 | 21 | 48.39 | 6 | 77.4 | 20 |
| Sept. 7 | 31.09 | 28 | 47.7 | 27 | 58.73 | 13 | 60.3 | 20 | 56.74 | 17 | 29.4 | 19 | 48.33 | 11 | 79.4 | 17 |
| 17 | 30.81 | 34 | 50.4 | 23 | 58.60 | 16 | 62.3 | 17 | 56.57 | 22 | 31.3 | 18 | 48.22 | 13 | 81.1 | 14 |
| 27 | 30.47 | 38 | 52.7 | 19 | 58.44 | 19 | 64.0 | 12 | 56.35 | 27 | 33.1 | 15 | 48.09 | 16 | 82.5 | 11 |
| Okt. 7 | 30.09 | 41 | 54.6 | 15 | 58.25 | 21 | 65.2 | 9 | 56.08 | 30 | 34.6 | 11 | 47.93 | 18 | 83.6 | 6 |
| 17 | 29.68 | 43 | 56.1 | 9 | 58.04 | 22 | 66.1 | 4 | 55.78 | 32 | 35.7 | 7 | 47.75 | 18 | 84.2 | 3 |
| 27 | 29.25 | 44 | 57.0 | 3 | 57.82 | 21 | 66.5 | 1 | 55.46 | 32 | 36.4 | 3 | 47.57 | 18 | 84.5 | 1 |
| Nov. 6 | 28.81 | 42 | 57.3 | 2 | 57.61 | 20 | 66.4 | 5 | 55.14 | 30 | 36.7 | 1 | 47.39 | 18 | 84.4 | 5 |
| 16 | 28.39 | 41 | 57.1 | 8 | 57.41 | 19 | 65.9 | 9 | 54.84 | 27 | 36.6 | 7 | 47.21 | 15 | 83.9 | 8 |
| 26 | 27.98 | 37 | 56.3 | 13 | 57.22 | 16 | 65.0 | 14 | 54.57 | 23 | 35.9 | 10 | 47.06 | 13 | 83.1 | 13 |
| Dez. 6 | 27.61 | 32 | 55.0 | 19 | 57.06 | 13 | 63.6 | 18 | 54.34 | 17 | 34.9 | 15 | 46.93 | 11 | 81.8 | 15 |
| 16 | 27.29 | 27 | 53.1 | 23 | 56.93 | 9 | 61.8 | 21 | 54.17 | 10 | 33.4 | 18 | 46.82 | 8 | 80.3 | 19 |
| 26 | 27.02 | 20 | 50.8 | 27 | 56.84 | 6 | 59.7 | 24 | 54.07 | 4 | 31.6 | 22 | 46.74 | 4 | 78.4 | 21 |
| 36 | 26.82 | | 48.1 | | 56.78 | | 57.3 | | 54.03 | | 29.4 | | 46.70 | | 76.3 | |
| Mittl. Ort | 28.88 | | 34.1 | | 56.48 | | 47.6 | | 51.65 | | 25.9 | | 45.99 | | 67.1 | |
| | 783) | | | | 784) | | | | 785) | | | | 786) | | | |

| 1911 | ν Cygni. 3m.9. | | | | ζ Microscopii. 5m.4. | | | | 61 Cygni pr.*). 5m.4. | | | | ν Aquarii. 4m.4. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. − | | AR. | | Dekl. + | | AR. | | Dekl. − | |
| | 20h 53m | | 40° 49′ | | 20h 57m | | 38° 58′ | | 21h 2m | | 38° 18′ | | 21h 4m | | 11° 43′ | |
| Jan. 0 | 49.03 | | 25.6 | | 14.80 | | 62.6 | | 52.23 | | 39.5 | | 43.05 | | 68.5 | |
| | | 5 | | 26 | | 1 | | 12 | | 5 | | 23 | | 0 | | 3 |
| 10 | 48.98 | | 23.0 | | 14.81 | | 61.4 | | 52.18 | | 37.2 | | 43.05 | | 68.8 | |
| | | 2 | | 27 | | 6 | | 13 | | 0 | | 26 | | 5 | | 3 |
| 20 | 48.96 | — | 20.3 | | 14.87 | | 60.1 | | 52.18 | | 34.6 | | 43.10 | | 69.1 | |
| | | 3 | | 28 | | 10 | | 15 | | 3 | | 26 | | 7 | | 1 |
| 30 | 48.99 | | 17.5 | | 14.97 | | 58.6 | | 52.21 | | 32.0 | | 43.17 | | 69.2 | |
| | | 9 | | 31 | | 15 | | 18 | | 10 | | 28 | | 11 | | 1 |
| Febr. 9 | [31] 49.08 | | 14.4 | | [1] 15.12 | | 56.8 | | [2] 52.31 | | 29.2 | | [3] 43.28 | | 69.3 | — |
| | | 12 | | 27 | | 18 | | 17 | | 13 | | 25 | | 14 | | 2 |
| 19 | 49.20 | | 11.7 | | 15.30 | | 55.1 | | 52.44 | | 26.7 | | 43.42 | | 69.1 | |
| | | 18 | | 23 | | 22 | | 18 | | 17 | | 22 | | 17 | | 3 |
| März 1 | 49.38 | | 9.4 | | 15.52 | | 53.3 | | 52.61 | | 24.5 | | 43.59 | | 68.8 | |
| | | 21 | | 20 | | 26 | | 18 | | 21 | | 18 | | 20 | | 5 |
| 11 | 49.59 | | 7.4 | | 15.78 | | 51.5 | | 52.82 | | 22.7 | | 43.79 | | 68.3 | |
| | | 26 | | 15 | | 28 | | 18 | | 26 | | 13 | | 22 | | 6 |
| 21 | 49.85 | | 5.9 | | 16.06 | | 49.7 | | 53.08 | | 21.4 | | 44.01 | | 67.7 | |
| | | 28 | | 11 | | 32 | | 18 | | 29 | | 10 | | 25 | | 9 |
| 31 | 50.13 | | 4.8 | | 16.38 | | 47.9 | | 53.37 | | 20.4 | | 44.26 | | 66.8 | |
| | | 32 | | 5 | | 34 | | 17 | | 31 | | 3 | | 27 | | 11 |
| April 10 | 50.45 | | 4.3 | — | 16.72 | | 46.2 | | 53.68 | | 20.1 | — | 44.53 | | 65.7 | |
| | | 34 | | 1 | | 36 | | 16 | | 34 | | 2 | | 29 | | 13 |
| 20 | 50.79 | | 4.4 | | 17.08 | | 44.6 | | 54.02 | | 20.3 | | 44.82 | | 64.4 | |
| | | 36 | | 6 | | 38 | | 15 | | 35 | | 7 | | 31 | | 14 |
| 30 | 51.15 | | 5.0 | | 17.46 | | 43.1 | | 54.37 | | 21.0 | | 45.13 | | 63.0 | |
| | | 36 | | 12 | | 40 | | 13 | | 37 | | 13 | | 32 | | 15 |
| Mai 10 | 51.51 | | 6.2 | | 17.86 | | 41.8 | | 54.74 | | 22.3 | | 45.45 | | 61.5 | |
| | | 36 | | 17 | | 39 | | 12 | | 36 | | 18 | | 32 | | 15 |
| 20 | 51.87 | | 7.9 | | 18.25 | | 40.6 | | 55.10 | | 24.1 | | 45.77 | | 60.0 | |
| | | 35 | | 21 | | 39 | | 9 | | 35 | | 22 | | 33 | | 16 |
| 30 | 52.22 | | 10.0 | | 18.64 | | 39.7 | | 55.45 | | 26.3 | | 46.10 | | 58.4 | |
| | | 32 | | 25 | | 38 | | 6 | | 34 | | 25 | | 31 | | 16 |
| Juni 9 | 52.54 | | 12.5 | | 19.02 | | 39.1 | | 55.79 | | 28.8 | | 46.41 | | 56.8 | |
| | | 30 | | 28 | | 35 | | 4 | | 30 | | 29 | | 29 | | 15 |
| 19 | 52.84 | | 15.3 | | 19.37 | | 38.7 | | 56.09 | | 31.7 | | 46.70 | | 55.3 | |
| | | 26 | | 30 | | 32 | | 0 | | 28 | | 30 | | 27 | | 13 |
| 29 | 53.10 | | 18.3 | | 19.69 | | 38.7 | | 56.37 | | 34.7 | | 46.97 | | 54.0 | |
| | | 22 | | 32 | | 29 | | 2 | | 23 | | 32 | | 24 | | 12 |
| Juli 9 | 53.32 | | 21.5 | | 19.98 | | 38.9 | | 56.60 | | 37.9 | | 47.21 | | 52.8 | |
| | | 17 | | 32 | | 25 | | 5 | | 18 | | 33 | | 20 | | 10 |
| 19 | 53.49 | | 24.7 | | 20.23 | | 39.4 | | 56.78 | | 41.2 | | 47.41 | | 51.8 | |
| | | 12 | | 33 | | 18 | | 8 | | 14 | | 33 | | 16 | | 9 |
| 29 | 53.61 | | 28.0 | | 20.41 | | 40.2 | | 56.92 | | 44.5 | | 47.57 | | 50.9 | |
| | | 6 | | 31 | | 13 | | 9 | | 8 | | 31 | | 12 | | 6 |
| Aug. 8 | 53.67 | | 31.1 | | 20.54 | | 41.1 | | 57.00 | | 47.6 | | 47.69 | | 50.3 | |
| | | 0 | | 31 | | 8 | | 12 | | 3 | | 31 | | 7 | | 4 |
| 18 | 53.67 | | 34.2 | | 20.62 | | 42.3 | | 57.03 | — | 50.7 | | 47.76 | | 49.9 | |
| | | 4 | | 28 | | 2 | | 13 | | 2 | | 28 | | 2 | | 3 |
| 28 | 53.63 | | 37.0 | | 20.64 | — | 43.6 | | 57.01 | | 53.5 | | 47.78 | — | 49.6 | |
| | | 9 | | 25 | | 3 | | 13 | | 7 | | 26 | | 2 | | 1 |
| Sept. 7 | 53.54 | | 39.5 | | 20.61 | | 44.9 | | 56.94 | | 56.1 | | 47.76 | | 49.5 | — |
| | | 14 | | 22 | | 9 | | 13 | | 11 | | 23 | | 6 | | 1 |
| 17 | 53.40 | | 41.7 | | 20.52 | | 46.2 | | 56.83 | | 58.4 | | 47.70 | | 49.6 | |
| | | 17 | | 19 | | 12 | | 13 | | 15 | | 19 | | 9 | | 3 |
| 27 | 53.23 | | 43.6 | | 20.40 | | 47.5 | | 56.68 | | 60.3 | | 47.61 | | 49.9 | |
| | | 20 | | 15 | | 16 | | 12 | | 18 | | 15 | | 11 | | 3 |
| Okt. 7 | 53.03 | | 45.1 | | 20.24 | | 48.7 | | 56.50 | | 61.8 | | 47.50 | | 50.2 | |
| | | 22 | | 10 | | 18 | | 9 | | 20 | | 12 | | 13 | | 3 |
| 17 | 52.81 | | 46.1 | | 20.06 | | 49.6 | | 56.30 | | 63.0 | | 47.37 | | 50.5 | |
| | | 23 | | 7 | | 19 | | 8 | | 20 | | 7 | | 14 | | 5 |
| 27 | 52.58 | | 46.8 | | 19.87 | | 50.4 | | 56.10 | | 63.7 | | 47.23 | | 51.0 | |
| | | 23 | | 1 | | 19 | | 5 | | 20 | | 2 | | 14 | | 5 |
| Nov. 6 | 52.35 | | 46.9 | — | 19.68 | | 50.9 | | 55.90 | | 63.9 | — | 47.09 | | 51.5 | |
| | | 23 | | 4 | | 18 | | 3 | | 21 | | 3 | | 13 | | 5 |
| 16 | 52.12 | | 46.5 | | 19.50 | | 51.2 | — | 55.69 | | 63.6 | | 46.96 | | 52.0 | |
| | | 21 | | 8 | | 16 | | 1 | | 18 | | 7 | | 12 | | 5 |
| 26 | 51.91 | | 45.7 | | 19.34 | | 51.1 | | 55.51 | | 62.9 | | 46.84 | | 52.5 | |
| | | 18 | | 13 | | 13 | | 3 | | 17 | | 11 | | 9 | | 4 |
| Dez. 6 | 51.73 | | 44.4 | | 19.21 | | 50.8 | | 55.34 | | 61.8 | | 46.75 | | 52.9 | |
| | | 16 | | 17 | | 9 | | 6 | | 13 | | 16 | | 7 | | 4 |
| 16 | 51.57 | | 42.7 | | 19.12 | | 50.2 | | 55.21 | | 60.2 | | 46.68 | | 53.3 | |
| | | 12 | | 21 | | 5 | | 9 | | 11 | | 19 | | 4 | | 4 |
| 26 | 51.45 | | 40.6 | | 19.07 | | 49.3 | | 55.10 | | 58.3 | | 46.64 | | 53.7 | |
| | | 8 | | 25 | | 1 | | 11 | | 7 | | 22 | | 1 | | 4 |
| 36 | 51.37 | | 38.1 | | 19.06 | | 48.2 | | 55.03 | | 56.1 | | 46.63 | | 54.1 | |
| Mittl. Ort | 51.27 | | 26.4 | | 16.92 | | 46.6 | | 54.40 | | 40.6 | | 44.86 | | 57.2 | |
| | 788) | | | | 790) | | | | 793) | | | | 794) | | | |

*) Die jährliche Parallaxe ist bereits angebracht.

| 1911 | Br. 2777. 6$^m$.0. AR. | | Dekl. + | | ζ Cygni. 3$^m$.1. AR. | | Dekl. + | | α Equulei. 3$^m$.9. AR. | | Dekl. + | | α Cephei. 2$^m$.5. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 21$^h$ 7$^m$ | | 77° 45′ | | 21$^h$ 9$^m$ | | 29° 51′ | | 21$^h$ 11$^m$ | | 4° 52′ | | 21$^h$ 16$^m$ | | 62° 12′ | |
| Jan. 0 | 11.81 | 61 | 61.0 | 26 | 6.87 | 5 | 38.8 | 21 | 20.73 | 1 | 38.1 | 12 | 24.26 | 23 | 33.2 | 25 |
| 10 | 11.20 | 47 | 58.4 | 30 | 6.82 | 0 | 36.7 | 23 | 20.72 | 3 | 36.9 | 12 | 24.03 | 16 | 30.7 | 29 |
| 20 | 10.73 | 28 | 55.4 | 32 | 6.82 | 3 | 34.4 | 24 | 20.75 | 5 | 35.7 | 11 | 23.87 | 7 | 27.8 | 32 |
| 30 | 10.45 | 8 | 52.2 | 37 | 6.85 | 8 | 32.0 | 26 | 20.80 | 10 | 34.6 | 11 | 23.80 | 0 | 24.6 | 35 |
| Febr. 9 | 10.37 | 12 | 48.5 | 33 | 6.93 | 11 | 29.4 | 22 | 20.90 | 12 | 33.5 | 9 | 23.80 | 9 | 21.1 | 32 |
| 19 | 10.49 | 32 | 45.2 | 31 | 7.04 | 15 | 27.2 | 19 | 21.02 | 15 | 32.6 | 6 | 23.89 | 18 | 17.9 | 30 |
| März 1 | 10.81 | 50 | 42.1 | 28 | 7.19 | 18 | 25.3 | 16 | 21.17 | 18 | 32.0 | 4 | 24.07 | 25 | 14.9 | 27 |
| 11 | 11.31 | 66 | 39.3 | 25 | 7.37 | 22 | 23.7 | 12 | 21.35 | 21 | 31.6 | 1 | 24.32 | 33 | 12.2 | 23 |
| 21 | 11.97 | 80 | 36.8 | 19 | 7.59 | 26 | 22.5 | 8 | 21.56 | 23 | 31.5 | 2 | 24.65 | 39 | 9.9 | 18 |
| 31 | 12.77 | 90 | 34.9 | 14 | 7.85 | 28 | 21.7 | 3 | 21.79 | 26 | 31.7 | 6 | 25.04 | 44 | 8.1 | 12 |
| April 10 | 13.67 | 98 | 33.5 | 8 | 8.13 | 30 | 21.4 | 3 | 22.05 | 29 | 32.3 | 8 | 25.48 | 48 | 6.9 | 6 |
| 20 | 14.65 | 102 | 32.7 | 2 | 8.43 | 32 | 21.7 | 7 | 22.34 | 29 | 33.1 | 12 | 25.96 | 52 | 6.3 | 0 |
| 30 | 15.67 | 104 | 32.5 | 5 | 8.75 | 34 | 22.4 | 12 | 22.63 | 31 | 34.3 | 15 | 26.48 | 52 | 6.3 | 6 |
| Mai 10 | 16.71 | 101 | 33.0 | 10 | 9.09 | 33 | 23.6 | 16 | 22.94 | 31 | 35.8 | 16 | 27.00 | 52 | 6.9 | 12 |
| 20 | 17.72 | 95 | 34.0 | 17 | 9.42 | 33 | 25.2 | 21 | 23.25 | 31 | 37.4 | 19 | 27.52 | 50 | 8.1 | 18 |
| 30 | 18.67 | 86 | 35.7 | 21 | 9.75 | 31 | 27.3 | 23 | 23.56 | 31 | 39.3 | 20 | 28.02 | 47 | 9.9 | 22 |
| Juni 9 | 19.53 | 76 | 37.8 | 26 | 10.06 | 29 | 29.6 | 26 | 23.87 | 28 | 41.3 | 20 | 28.49 | 43 | 12.1 | 27 |
| 19 | 20.29 | 62 | 40.4 | 29 | 10.35 | 27 | 32.2 | 28 | 24.15 | 26 | 43.3 | 20 | 28.92 | 37 | 14.8 | 31 |
| 29 | 20.91 | 48 | 43.3 | 33 | 10.62 | 22 | 35.0 | 29 | 24.41 | 23 | 45.3 | 20 | 29.29 | 30 | 17.9 | 33 |
| Juli 9 | 21.39 | 32 | 46.6 | 35 | 10.84 | 19 | 37.9 | 29 | 24.64 | 19 | 47.3 | 19 | 29.59 | 24 | 21.2 | 35 |
| 19 | 21.71 | 15 | 50.1 | 36 | 11.03 | 14 | 40.8 | 29 | 24.83 | 16 | 49.2 | 18 | 29.83 | 15 | 24.7 | 36 |
| 29 | 21.86 | 1 | 53.7 | 37 | 11.17 | 9 | 43.7 | 28 | 24.99 | 11 | 51.0 | 16 | 29.98 | 7 | 28.3 | 37 |
| Aug. 8 | 21.85 | 19 | 57.4 | 36 | 11.26 | 4 | 46.5 | 26 | 25.10 | 6 | 52.6 | 14 | 30.05 | 1 | 32.0 | 36 |
| 18 | 21.66 | 34 | 61.0 | 36 | 11.30 | 1 | 49.1 | 25 | 25.16 | 2 | 54.0 | 12 | 30.04 | 8 | 35.6 | 35 |
| 28 | 21.32 | 50 | 64.6 | 34 | 11.29 | 5 | 51.6 | 22 | 25.18 | 2 | 55.2 | 10 | 29.96 | 17 | 39.1 | 32 |
| Sept. 7 | 20.82 | 65 | 68.0 | 31 | 11.24 | 9 | 53.8 | 19 | 25.16 | 6 | 56.2 | 8 | 29.79 | 23 | 42.3 | 30 |
| 17 | 20.17 | 76 | 71.1 | 28 | 11.15 | 12 | 55.7 | 16 | 25.10 | 8 | 57.0 | 5 | 29.56 | 29 | 45.3 | 27 |
| 27 | 19.41 | 88 | 73.9 | 24 | 11.03 | 15 | 57.3 | 13 | 25.02 | 12 | 57.5 | 3 | 29.27 | 35 | 48.0 | 23 |
| Okt. 7 | 18.53 | 96 | 76.3 | 20 | 10.88 | 17 | 58.6 | 8 | 24.90 | 13 | 57.8 | 1 | 28.92 | 38 | 50.3 | 18 |
| 17 | 17.57 | 102 | 78.3 | 15 | 10.71 | 19 | 59.4 | 5 | 24.77 | 14 | 57.9 | 1 | 28.54 | 41 | 52.1 | 13 |
| 27 | 16.55 | 107 | 79.8 | 10 | 10.52 | 18 | 59.9 | 1 | 24.63 | 14 | 57.8 | 3 | 28.13 | 43 | 53.4 | 8 |
| Nov. 6 | 15.48 | 108 | 80.8 | 4 | 10.34 | 18 | 60.0 | 3 | 24.49 | 13 | 57.5 | 5 | 27.70 | 42 | 54.2 | 3 |
| 16 | 14.40 | 106 | 81.2 | 2 | 10.16 | 16 | 59.7 | 7 | 24.36 | 12 | 57.0 | 6 | 27.28 | 42 | 54.5 | 4 |
| 26 | 13.34 | 100 | 81.0 | 8 | 10.00 | 15 | 59.0 | 11 | 24.24 | 10 | 56.4 | 8 | 26.86 | 39 | 54.1 | 9 |
| Dez. 6 | 12.34 | 94 | 80.2 | 13 | 9.85 | 12 | 57.9 | 15 | 24.14 | 8 | 55.6 | 10 | 26.47 | 36 | 53.2 | 15 |
| 16 | 11.40 | 84 | 78.9 | 19 | 9.73 | 9 | 56.4 | 17 | 24.06 | 5 | 54.6 | 10 | 26.11 | 31 | 51.7 | 19 |
| 26 | 10.56 | 70 | 77.0 | 24 | 9.64 | 6 | 54.7 | 21 | 24.01 | 2 | 53.6 | 12 | 25.80 | 26 | 49.8 | 25 |
| 36 | 9.86 | | 74.6 | | 9.58 | | 52.6 | | 23.99 | | 52.4 | | 25.54 | | 47.3 | |
| Mittl. Ort | 17.87 | | 56.3 | | 8.86 | | 41.0 | | 22.52 | | 45.7 | | 27.36 | | 29.6 | |
| | 795) | | | | 797) | | | | 800) | | | | 803) | | | |

| 1911 | ι Pegasi. 4ᵐ.2. AR. | Δ | Dekl. + | Δ | γ Pavonis. 4ᵐ.2. AR. | Δ | Dekl. — | Δ | ζ Capricorni. 3ᵐ.8. AR. | Δ | Dekl. — | Δ | β Aquarii. 2ᵐ.9. AR. | Δ | Dekl. — | Δ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 21ʰ 17ᵐ | | 19° 25′ | | 21ʰ 19ᵐ | | 65° 45′ | | 21ʰ 21ᵐ | | 22° 47′ | | 21ʰ 26ᵐ | | 5° 57′ | |
| Jan. 0 | 56.36 | 3 | 19.4 | 18 | 2.78 | 10 | 90.7 | 25 | 33.51 | 1 | 64.3 | 2 | 50.76 | 1 | 57.5 | 6 |
| 10 | 56.33 | 0 | 17.6 | 18 | 2.68 | 1 | 88.2 | 27 | 33.50 | 3 | 64.1 | 4 | 50.75 | 1 | 58.1 | 6 |
| 20 | 56.33 | 3 | 15.8 | 19 | 2.67 | 6 | 85.5 | 29 | 33.53 | 6 | 63.7 | 6 | 50.76 | 5 | 58.7 | 4 |
| 30 | 56.36 | 8 | 13.9 | 20 | 2.73 | 17 | 82.6 | 33 | 33.59 | 10 | 63.1 | 8 | 50.81 | 9 | 59.1 | 4 |
| Febr. 9 | 56.44 | 11 | 11.9 | 16 | 2.90 | 24 | 79.3 | 31 | 33.69 | 13 | 62.3 | 8 | 50.90 | 11 | 59.5 | 1 |
| 19 | 56.55 | 14 | 10.3 | 15 | 3.14 | 32 | 76.2 | 31 | 33.82 | 16 | 61.5 | 10 | 51.01 | 14 | 59.6 | 0 |
| März 1 | 56.69 | 17 | 8.8 | 11 | 3.46 | 39 | 73.1 | 30 | 33.98 | 20 | 60.5 | 12 | 51.15 | 17 | 59.6 | 2 |
| 11 | 56.86 | 21 | 7.7 | 8 | 3.85 | 46 | 70.1 | 29 | 34.18 | 22 | 59.3 | 13 | 51.32 | 21 | 59.4 | 5 |
| 21 | 57.07 | 23 | 6.9 | 4 | 4.31 | 51 | 67.2 | 26 | 34.40 | 25 | 58.0 | 14 | 51.53 | 23 | 58.9 | 7 |
| 31 | 57.30 | 27 | 6.5 | 1 | 4.82 | 57 | 64.6 | 24 | 34.65 | 28 | 56.6 | 15 | 51.76 | 25 | 58.2 | 10 |
| April 10 | 57.57 | 28 | 6.6 | 5 | 5.39 | 61 | 62.2 | 21 | 34.93 | 30 | 55.1 | 16 | 52.01 | 28 | 57.2 | 12 |
| 20 | 57.85 | 31 | 7.1 | 9 | 6.00 | 64 | 60.1 | 17 | 35.23 | 32 | 53.5 | 16 | 52.29 | 29 | 56.0 | 14 |
| 30 | 58.16 | 31 | 8.0 | 13 | 6.64 | 67 | 58.4 | 14 | 35.55 | 33 | 51.9 | 16 | 52.58 | 31 | 54.6 | 15 |
| Mai 10 | 58.47 | 32 | 9.3 | 17 | 7.31 | 67 | 57.0 | 9 | 35.88 | 34 | 50.3 | 15 | 52.89 | 32 | 53.1 | 17 |
| 20 | 58.79 | 32 | 11.0 | 19 | 7.98 | 67 | 56.1 | 5 | 36.22 | 35 | 48.8 | 15 | 53.21 | 32 | 51.4 | 17 |
| 30 | 59.11 | 30 | 12.9 | 22 | 8.65 | 65 | 55.6 | 1 | 36.57 | 33 | 47.3 | 13 | 53.53 | 31 | 49.7 | 18 |
| Juni 9 | 59.41 | 29 | 15.1 | 24 | 9.30 | 61 | 55.5 | 4 | 36.90 | 32 | 46.0 | 12 | 53.84 | 30 | 47.9 | 18 |
| 19 | 59.70 | 27 | 17.5 | 25 | 9.91 | 57 | 55.9 | 8 | 37.22 | 30 | 44.8 | 10 | 54.14 | 28 | 46.1 | 16 |
| 29 | 59.97 | 23 | 20.0 | 26 | 10.48 | 50 | 56.7 | 13 | 37.52 | 27 | 43.8 | 7 | 54.42 | 25 | 44.5 | 16 |
| Juli 9 | 60.20 | 19 | 22.6 | 25 | 10.98 | 42 | 58.0 | 16 | 37.79 | 23 | 43.1 | 5 | 54.67 | 21 | 42.9 | 14 |
| 19 | 60.39 | 15 | 25.1 | 25 | 11.40 | 34 | 59.6 | 19 | 38.02 | 18 | 42.6 | 3 | 54.88 | 17 | 41.5 | 13 |
| 29 | 60.54 | 11 | 27.6 | 24 | 11.74 | 25 | 61.5 | 22 | 38.20 | 14 | 42.3 | 0 | 55.05 | 13 | 40.2 | 10 |
| Aug. 8 | 60.65 | 6 | 30.0 | 22 | 11.99 | 14 | 63.7 | 23 | 38.34 | 10 | 42.3 | 2 | 55.18 | 9 | 39.2 | 8 |
| 18 | 60.71 | 2 | 32.2 | 19 | 12.13 | 4 | 66.0 | 24 | 38.44 | 4 | 42.5 | 4 | 55.27 | 5 | 38.4 | 6 |
| 28 | 60.73 | 2 | 34.1 | 18 | 12.17 | 7 | 68.4 | 25 | 38.48 | 0 | 42.9 | 5 | 55.32 | 0 | 37.8 | 4 |
| Sept. 7 | 60.71 | 7 | 35.9 | 15 | 12.10 | 16 | 70.9 | 24 | 38.48 | 5 | 43.4 | 7 | 55.32 | 4 | 37.4 | 3 |
| 17 | 60.64 | 10 | 37.4 | 12 | 11.94 | 24 | 73.3 | 21 | 38.43 | 8 | 44.1 | 7 | 55.28 | 8 | 37.1 | 0 |
| 27 | 60.54 | 12 | 38.6 | 10 | 11.70 | 32 | 75.4 | 18 | 38.35 | 11 | 44.8 | 7 | 55.20 | 10 | 37.1 | 1 |
| Okt. 7 | 60.42 | 15 | 39.6 | 6 | 11.38 | 37 | 77.2 | 15 | 38.24 | 13 | 45.5 | 8 | 55.10 | 12 | 37.2 | 2 |
| 17 | 60.27 | 15 | 40.2 | 3 | 11.01 | 40 | 78.7 | 11 | 38.11 | 15 | 46.3 | 7 | 54.98 | 13 | 37.4 | 4 |
| 27 | 60.12 | 16 | 40.5 | 1 | 10.61 | 41 | 79.8 | 5 | 37.96 | 15 | 47.0 | 6 | 54.85 | 13 | 37.8 | 4 |
| Nov. 6 | 59.96 | 15 | 40.4 | 3 | 10.20 | 42 | 80.3 | 1 | 37.81 | 14 | 47.6 | 5 | 54.72 | 13 | 38.2 | 5 |
| 16 | 59.81 | 14 | 40.1 | 7 | 9.78 | 39 | 80.4 | 5 | 37.67 | 12 | 48.1 | 3 | 54.59 | 12 | 38.7 | 6 |
| 26 | 59.67 | 12 | 39.4 | 9 | 9.39 | 35 | 79.9 | 10 | 37.55 | 11 | 48.4 | 3 | 54.47 | 10 | 39.3 | 6 |
| Dez. 6 | 59.55 | 10 | 38.5 | 13 | 9.04 | 29 | 78.9 | 15 | 37.44 | 8 | 48.7 | 1 | 54.37 | 8 | 39.9 | 6 |
| 16 | 59.45 | 7 | 37.2 | 14 | 8.75 | 22 | 77.4 | 19 | 37.36 | 6 | 48.8 | 1 | 54.29 | 5 | 40.5 | 6 |
| 26 | 59.38 | 5 | 35.8 | 17 | 8.53 | 14 | 75.5 | 23 | 37.30 | 2 | 48.7 | 2 | 54.24 | 3 | 41.1 | 6 |
| 36 | 59.33 | | 34.1 | | 8.39 | | 73.2 | | 37.28 | | 48.5 | | 54.21 | | 41.7 | |
| Mittl. Ort | 58.21 | | 23.5 | | 5.80 | | 70.4 | | 35.29 | | 50.5 | | 52.48 | | 47.4 | |
| | 804) | | | | 805) | | | | 806) | | | | 808) | | | |

| 1911 | β Cephei. 3ᵐ.1. AR. | | Dekl. + | | ν Octantis. 3ᵐ.7. AR. | | Dekl. − | | 74 Cygni. 5ᵐ.1. AR. | | Dekl. + | | ε Pegasi. 2ᵐ.3. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $21^h 27^m$ | | 70° 9′ | | $21^h 31^m$ | | 77° 46′ | | $21^h 33^m$ | | 40° 0′ | | $21^h 39^m$ | | 9° 27′ | |
| Jan. 0 | 27.04 | 38 | 77.0 | 25 | 32.08 | 34 | 91.0 | 28 | 20.74 | 10 | 48.9 | 23 | 47.18 | 3 | 53.3 | 13 |
| 10 | 26.66 | 29 | 74.5 | 28 | 31.74 | 19 | 88.2 | 31 | 20.64 | 6 | 46.6 | 24 | 47.15 | 1 | 52.0 | 13 |
| 20 | 26.37 | 19 | 71.7 | 32 | 31.55 | 1 | 85.1 | 33 | 20.58 | 1 | 44.2 | 26 | 47.14 | 2 | 50.7 | 13 |
| 30 | 26.18 | 6 | 68.5 | 36 | 31.54 | 16 | 81.8 | 36 | 20.57 | 3 | 41.6 | 27 | 47.16 | 6 | 49.4 | 12 |
| Febr. 9 | 26.12 | 5 | 64.9 | 32 | 31.70 | 37 | 78.2 | 38 | 20.60 | 8 | 38.9 | 29 | 47.22 | 10 | 48.2 | 12 |
| 19 | 26.17 | 18 | 61.7 | 32 | 32.07 | 48 | 74.4 | 34 | 20.68 | 12 | 36.0 | 23 | 47.32 | 12 | 47.0 | 9 |
| März 1 | 26.35 | 29 | 58.5 | 29 | 32.55 | 64 | 71.0 | 34 | 20.80 | 17 | 33.7 | 21 | 47.44 | 15 | 46.1 | 6 |
| 11 | 26.64 | 39 | 55.6 | 25 | 33.19 | 77 | 67.6 | 31 | 20.97 | 22 | 31.6 | 17 | 47.59 | 18 | 45.5 | 3 |
| 21 | 27.03 | 49 | 53.1 | 20 | 33.96 | 89 | 64.5 | 29 | 21.19 | 25 | 29.9 | 13 | 47.77 | 22 | 45.2 | 0 |
| 31 | 27.52 | 56 | 51.1 | 15 | 34.85 | 100 | 61.6 | 26 | 21.44 | 29 | 28.6 | 7 | 47.99 | 24 | 45.2 | 4 |
| April 10 | 28.08 | 63 | 49.6 | 9 | 35.85 | 109 | 59.0 | 22 | 21.73 | 32 | 27.9 | 2 | 48.23 | 27 | 45.6 | 8 |
| 20 | 28.71 | 66 | 48.7 | 3 | 36.94 | 115 | 56.8 | 18 | 22.05 | 34 | 27.7 | 3 | 48.50 | 29 | 46.4 | 10 |
| 30 | 29.37 | 68 | 48.4 | 3 | 38.09 | 119 | 55.0 | 14 | 22.39 | 36 | 28.0 | 9 | 48.79 | 31 | 47.4 | 14 |
| Mai 10 | 30.05 | 69 | 48.7 | 10 | 39.28 | 121 | 53.6 | 8 | 22.75 | 37 | 28.9 | 14 | 49.10 | 31 | 48.8 | 17 |
| 20 | 30.74 | 66 | 49.7 | 15 | 40.49 | 120 | 52.8 | 4 | 23.12 | 36 | 30.3 | 18 | 49.41 | 32 | 50.5 | 19 |
| 30 | 31.40 | 61 | 51.2 | 21 | 41.69 | 117 | 52.4 | 1 | 23.48 | 34 | 32.1 | 23 | 49.73 | 31 | 52.4 | 20 |
| Juni 9 | 32.01 | 56 | 53.3 | 25 | 42.86 | 112 | 52.5 | 6 | 23.82 | 33 | 34.4 | 26 | 50.04 | 29 | 54.4 | 22 |
| 19 | 32.57 | 48 | 55.8 | 29 | 43.98 | 103 | 53.1 | 11 | 24.15 | 30 | 37.0 | 28 | 50.33 | 28 | 56.6 | 22 |
| 29 | 33.05 | 40 | 58.7 | 32 | 45.01 | 91 | 54.2 | 16 | 24.45 | 26 | 39.8 | 31 | 50.61 | 25 | 58.8 | 22 |
| Juli 9 | 33.45 | 30 | 61.9 | 35 | 45.92 | 78 | 55.8 | 20 | 24.71 | 21 | 42.9 | 32 | 50.86 | 22 | 61.0 | 22 |
| 19 | 33.75 | 20 | 65.4 | 36 | 46.70 | 62 | 57.8 | 22 | 24.92 | 17 | 46.1 | 32 | 51.08 | 17 | 63.2 | 20 |
| 29 | 33.95 | 9 | 69.0 | 38 | 47.32 | 44 | 60.0 | 26 | 25.09 | 11 | 49.3 | 32 | 51.25 | 14 | 65.2 | 20 |
| Aug. 8 | 34.04 | 2 | 72.8 | 37 | 47.76 | 25 | 62.6 | 28 | 25.20 | 7 | 52.5 | 31 | 51.39 | 9 | 67.2 | 17 |
| 18 | 34.02 | 12 | 76.5 | 36 | 48.01 | 6 | 65.4 | 28 | 25.27 | 1 | 55.6 | 30 | 51.48 | 4 | 68.9 | 15 |
| 28 | 33.90 | 22 | 80.1 | 35 | 48.07 | 13 | 68.2 | 28 | 25.28 | 4 | 58.6 | 27 | 51.52 | 1 | 70.4 | 13 |
| Sept. 7 | 33.68 | 32 | 83.6 | 32 | 47.94 | 32 | 71.0 | 27 | 25.24 | 9 | 61.3 | 25 | 51.53 | 4 | 71.7 | 11 |
| 17 | 33.36 | 41 | 86.8 | 29 | 47.62 | 49 | 73.7 | 24 | 25.15 | 13 | 63.8 | 21 | 51.49 | 7 | 72.8 | 8 |
| 27 | 32.95 | 47 | 89.7 | 26 | 47.13 | 63 | 76.1 | 21 | 25.02 | 16 | 65.9 | 18 | 51.42 | 9 | 73.6 | 6 |
| Okt. 7 | 32.48 | 54 | 92.3 | 21 | 46.50 | 75 | 78.2 | 17 | 24.86 | 18 | 67.7 | 14 | 51.33 | 12 | 74.2 | 3 |
| 17 | 31.94 | 58 | 94.4 | 17 | 45.75 | 84 | 79.9 | 12 | 24.68 | 21 | 69.1 | 10 | 51.21 | 13 | 74.5 | 1 |
| 27 | 31.36 | 60 | 96.1 | 11 | 44.91 | 88 | 81.1 | 7 | 24.47 | 21 | 70.1 | 5 | 51.08 | 14 | 74.6 | 1 |
| Nov. 6 | 30.76 | 63 | 97.2 | 5 | 44.03 | 89 | 81.8 | 0 | 24.26 | 21 | 70.6 | 1 | 50.94 | 13 | 74.5 | 4 |
| 16 | 30.13 | 61 | 97.7 | 0 | 43.14 | 86 | 81.8 | 5 | 24.05 | 21 | 70.7 | 4 | 50.81 | 13 | 74.1 | 5 |
| 26 | 29.52 | 59 | 97.7 | 6 | 42.28 | 80 | 81.3 | 11 | 23.84 | 19 | 70.3 | 9 | 50.68 | 11 | 73.6 | 8 |
| Dez. 6 | 28.93 | 56 | 97.1 | 12 | 41.48 | 70 | 80.2 | 17 | 23.65 | 17 | 69.4 | 13 | 50.57 | 9 | 72.8 | 9 |
| 16 | 28.37 | 50 | 95.9 | 17 | 40.78 | 58 | 78.5 | 22 | 23.48 | 14 | 68.1 | 17 | 50.48 | 7 | 71.9 | 11 |
| 26 | 27.87 | 42 | 94.2 | 23 | 40.20 | 43 | 76.3 | 27 | 23.34 | 11 | 66.4 | 21 | 50.41 | 5 | 70.8 | 12 |
| 36 | 27.45 | | 91.9 | | 39.77 | | 73.6 | | 23.23 | | 64.3 | | 50.36 | | 69.6 | |
| Mittl. Ort | 30.99 | | 71.6 | | 36.86 | | 69.4 | | 22.83 | | 47.9 | | 48.88 | | 59.4 | |
| | 809) | | | | 810) | | | | 811) | | | | 815) | | | |

| 1911 | δ Capricorni. $2^m.8$ AR. | | Dekl. − | | $\pi^2$ Cygni. $4^m.3$ AR. | | Dekl. + | | γ Gruis. $3^m.0$ AR. | | Dekl. − | | 16 Pegasi. $5^m.2$ AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $21^h 42^m$ | | 16° 31′ | | $21^h 43^m$ | | 48° 53′ | | $21^h 48^m$ | | 37° 46′ | | $21^h 48^m$ | | 25° 30′ | |
| Jan. 0 | 6.16 | 3 | 66.5 | 0 | 27.95 | 15 | 53.7 | 23 | 30.82 | 4 | 79.6 | 10 | 58.91 | 7 | 19.9 | 18 |
| 10 | 6.13 | 1 | 66.5 | 0 | 27.80 | 10 | 51.4 | 26 | 30.78 | 1 | 78.6 | 12 | 58.84 | 4 | 18.1 | 19 |
| 20 | 6.14 | 4 | 66.5 | 2 | 27.70 | 6 | 48.8 | 28 | 30.77 | 3 | 77.4 | 14 | 58.80 | 0 | 16.2 | 21 |
| 30 | 6.18 | 7 | 66.3 | 3 | 27.64 | 0 | 46.0 | 29 | 30.80 | 7 | 76.0 | 17 | 58.80 | 3 | 14.1 | 20 |
| Febr. 9 | 6.25 | 11 | 66.0 | 6 | 27.64 | 6 | 43.1 | 31 | 30.87 | 12 | 74.3 | 20 | 58.83 | 7 | 12.1 | 20 |
| 19 | 6.36 | 13 | 65.4 | 7 | 27.70 | 11 | 40.0 | 27 | 30.99 | 15 | 72.3 | 20 | 58.90 | 11 | 10.1 | 18 |
| März 1 | 6.49 | 17 | 64.7 | 9 | 27.81 | 17 | 37.3 | 24 | 31.14 | 19 | 70.3 | 20 | 59.01 | 15 | 8.3 | 14 |
| 11 | 6.66 | 19 | 63.8 | 10 | 27.98 | 22 | 34.9 | 21 | 31.33 | 23 | 68.3 | 21 | 59.16 | 18 | 6.9 | 11 |
| 21 | 6.85 | 23 | 62.8 | 13 | 28.20 | 27 | 32.8 | 16 | 31.56 | 26 | 66.2 | 22 | 59.34 | 21 | 5.8 | 8 |
| 31 | 7.08 | 26 | 61.5 | 13 | 28.47 | 32 | 31.2 | 11 | 31.82 | 29 | 64.0 | 21 | 59.55 | 25 | 5.0 | 3 |
| April 10 | 7.34 | 27 | 60.2 | 16 | 28.79 | 35 | 30.1 | 6 | 32.11 | 33 | 61.9 | 21 | 59.80 | 28 | 4.7 | 2 |
| 20 | 7.61 | 31 | 58.6 | 16 | 29.14 | 38 | 29.5 | 1 | 32.44 | 35 | 59.8 | 20 | 60.08 | 30 | 4.9 | 6 |
| 30 | 7.92 | 32 | 57.0 | 17 | 29.52 | 40 | 29.6 | 6 | 32.79 | 37 | 57.8 | 18 | 60.38 | 32 | 5.5 | 11 |
| Mai 10 | 8.24 | 32 | 55.3 | 17 | 29.92 | 40 | 30.2 | 11 | 33.16 | 38 | 56.0 | 17 | 60.70 | 33 | 6.6 | 14 |
| 20 | 8.56 | 34 | 53.6 | 17 | 30.32 | 41 | 31.3 | 17 | 33.54 | 39 | 54.3 | 15 | 61.03 | 33 | 8.0 | 19 |
| 30 | 8.90 | 33 | 51.9 | 16 | 30.73 | 39 | 33.0 | 21 | 33.93 | 39 | 52.8 | 11 | 61.36 | 33 | 9.9 | 21 |
| Juni 9 | 9.23 | 32 | 50.3 | 15 | 31.12 | 36 | 35.1 | 26 | 34.32 | 37 | 51.7 | 9 | 61.69 | 31 | 12.0 | 24 |
| 19 | 9.55 | 29 | 48.8 | 13 | 31.48 | 34 | 37.7 | 28 | 34.69 | 36 | 50.8 | 6 | 62.00 | 28 | 14.4 | 26 |
| 29 | 9.84 | 27 | 47.5 | 11 | 31.82 | 29 | 40.5 | 32 | 35.05 | 32 | 50.2 | 2 | 62.28 | 26 | 17.0 | 28 |
| Juli 9 | 10.11 | 24 | 46.4 | 10 | 32.11 | 23 | 43.7 | 33 | 35.37 | 29 | 50.0 | 1 | 62.54 | 23 | 19.8 | 27 |
| 19 | 10.35 | 20 | 45.4 | 7 | 32.34 | 19 | 47.0 | 34 | 35.66 | 24 | 50.1 | 5 | 62.77 | 18 | 22.5 | 28 |
| 29 | 10.55 | 16 | 44.7 | 4 | 32.53 | 13 | 50.4 | 35 | 35.90 | 18 | 50.6 | 7 | 62.95 | 14 | 25.3 | 26 |
| Aug. 8 | 10.71 | 10 | 44.3 | 2 | 32.66 | 7 | 53.9 | 33 | 36.08 | 14 | 51.3 | 9 | 63.09 | 9 | 27.9 | 26 |
| 18 | 10.81 | 6 | 44.1 | 0 | 32.73 | 0 | 57.2 | 33 | 36.22 | 8 | 52.2 | 12 | 63.18 | 4 | 30.5 | 23 |
| 28 | 10.87 | 2 | 44.1 | 1 | 32.73 | 4 | 60.5 | 31 | 36.30 | 2 | 53.4 | 14 | 63.22 | 0 | 32.8 | 22 |
| Sept. 7 | 10.89 | 2 | 44.2 | 4 | 32.69 | 10 | 63.6 | 29 | 36.32 | 3 | 54.8 | 14 | 63.22 | 4 | 35.0 | 19 |
| 17 | 10.87 | 6 | 44.6 | 5 | 32.59 | 15 | 66.5 | 25 | 36.29 | 7 | 56.2 | 15 | 63.18 | 8 | 36.9 | 17 |
| 27 | 10.81 | 10 | 45.1 | 6 | 32.44 | 19 | 69.0 | 22 | 36.22 | 12 | 57.7 | 14 | 63.10 | 11 | 38.6 | 13 |
| Okt. 7 | 10.71 | 11 | 45.7 | 6 | 32.25 | 22 | 71.2 | 18 | 36.10 | 14 | 59.1 | 13 | 62.99 | 13 | 39.9 | 10 |
| 17 | 10.60 | 13 | 46.3 | 6 | 32.03 | 24 | 73.0 | 13 | 35.96 | 16 | 60.4 | 12 | 62.86 | 15 | 40.9 | 7 |
| 27 | 10.47 | 13 | 46.9 | 6 | 31.79 | 26 | 74.3 | 9 | 35.80 | 18 | 61.6 | 9 | 62.71 | 15 | 41.6 | 3 |
| Nov. 6 | 10.34 | 14 | 47.5 | 6 | 31.53 | 26 | 75.2 | 4 | 35.62 | 18 | 62.5 | 6 | 62.56 | 16 | 41.9 | 1 |
| 16 | 10.20 | 12 | 48.1 | 5 | 31.27 | 26 | 75.6 | 2 | 35.44 | 16 | 63.1 | 3 | 62.40 | 15 | 41.8 | 4 |
| 26 | 10.08 | 10 | 48.6 | 5 | 31.01 | 25 | 75.4 | 7 | 35.28 | 15 | 63.4 | 1 | 62.25 | 14 | 41.4 | 7 |
| Dez. 6 | 9.98 | 9 | 49.1 | 3 | 30.76 | 22 | 74.7 | 12 | 35.13 | 12 | 63.5 | 3 | 62.11 | 13 | 40.7 | 11 |
| 16 | 9.89 | 6 | 49.4 | 3 | 30.54 | 20 | 73.5 | 16 | 35.01 | 10 | 63.2 | 6 | 61.98 | 10 | 39.6 | 14 |
| 26 | 9.83 | 4 | 49.7 | 1 | 30.34 | 16 | 71.9 | 21 | 34.91 | 6 | 62.6 | 8 | 61.88 | 8 | 38.2 | 17 |
| 36 | 9.79 | | 49.8 | | 30.18 | | 69.8 | | 34.85 | | 61.8 | | 61.80 | | 36.5 | |
| Mittl. Ort | 7.81 | | 53.7 | | 30.24 | | 50.4 | | 32.57 | | 62.0 | | 60.70 | | 21.6 | |
| | 819) | | | | 821) | | | | 822) | | | | 823) | | | |

| 1911 | α Aquarii. 2ᵐ.9. | | | | ι Aquarii. 4ᵐ.2. | | | | 20 Cephei. 5ᵐ.7. | | | | α Gruis. 1ᵐ.8. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. − | | AR. | | Dekl. − | | AR. | | Dekl. + | | AR. | | Dekl. − | |
| | $22^h 1^m$ | | 0° 44′ | | $22^h 1^m$ | | 14° 17′ | | $22^h 2^m$ | | 62° 20′ | | $22^h 2^m$ | | 47° 23′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | | s | | ″ | |
| Jan. 0 | 11.23 | 4 | 77.9 | 8 | 36.37 | 3 | 78.8 | 2 | 15.27 | 29 | 70.9 | 21 | 35.97 | 8 | 52.9 | 14 |
| 10 | 11.19 | 2 | 78.7 | 7 | 36.34 | 1 | 79.0 | 0 | 14.98 | 22 | 68.8 | 26 | 35.89 | 4 | 51.5 | 17 |
| 20 | 11.17 | 1 | 79.4 | 7 | 36.33 | 1 | 79.0 | 1 | 14.76 | 17 | 66.2 | 29 | 35.85 | 0 | 49.8 | 19 |
| 30 | 11.18 | 4 | 80.1 | 6 | 36.34 | 5 | 78.9 | 2 | 14.59 | 9 | 63.3 | 30 | 35.85 | 5 | 47.9 | 22 |
| Febr. 9 | 11.22 | 8 | 80.7 | 5 | 36.39 | 8 | 78.7 | 5 | 14.50 | 0 | 60.3 | 34 | 35.90 | 11 | 45.7 | 26 |
| 19 | 11.30 | 10 | 81.2 | 2 | 36.47 | 11 | 78.2 | 6 | 14.50 | 8 | 56.9 | 31 | 36.01 | 15 | 43.1 | 25 |
| März 1 | 11.40 | 14 | 81.4 | 0 | 36.58 | 15 | 77.6 | 8 | 14.58 | 17 | 53.8 | 28 | 36.16 | 19 | 40.6 | 26 |
| 11 | 11.54 | 17 | 81.4 | 3 | 36.73 | 17 | 76.8 | 10 | 14.75 | 25 | 51.0 | 26 | 36.35 | 23 | 38.0 | 26 |
| 21 | 11.71 | 20 | 81.1 | 5 | 36.90 | 21 | 75.8 | 12 | 15.00 | 32 | 48.4 | 21 | 36.58 | 28 | 35.4 | 26 |
| 31 | 11.91 | 23 | 80.6 | 8 | 37.11 | 24 | 74.6 | 14 | 15.32 | 39 | 46.3 | 17 | 36.86 | 32 | 32.8 | 25 |
| April 10 | 12.14 | 25 | 79.8 | 11 | 37.35 | 26 | 73.2 | 15 | 15.71 | 45 | 44.6 | 10 | 37.18 | 35 | 30.3 | 24 |
| 20 | 12.39 | 28 | 78.7 | 13 | 37.61 | 29 | 71.7 | 17 | 16.16 | 48 | 43.6 | 5 | 37.53 | 39 | 27.9 | 22 |
| 30 | 12.67 | 30 | 77.4 | 16 | 37.90 | 31 | 70.0 | 18 | 16.64 | 52 | 43.1 | 1 | 37.92 | 41 | 25.7 | 20 |
| Mai 10 | 12.97 | 32 | 75.8 | 17 | 38.21 | 32 | 68.2 | 18 | 17.16 | 53 | 43.2 | 7 | 38.33 | 43 | 23.7 | 17 |
| 20 | 13.29 | 32 | 74.1 | 19 | 38.53 | 33 | 66.4 | 18 | 17.69 | 53 | 43.9 | 13 | 38.76 | 44 | 22.0 | 14 |
| 30 | 13.61 | 31 | 72.2 | 19 | 38.86 | 33 | 64.6 | 17 | 18.22 | 52 | 45.2 | 18 | 39.20 | 44 | 20.6 | 11 |
| Juni 9 | 13.92 | 31 | 70.3 | 20 | 39.19 | 32 | 62.9 | 17 | 18.74 | 48 | 47.0 | 23 | 39.64 | 43 | 19.5 | 7 |
| 19 | 14.23 | 29 | 68.3 | 19 | 39.51 | 31 | 61.2 | 15 | 19.22 | 44 | 49.3 | 27 | 40.07 | 40 | 18.8 | 3 |
| 29 | 14.52 | 27 | 66.4 | 19 | 39.82 | 27 | 59.7 | 14 | 19.66 | 39 | 52.0 | 30 | 40.47 | 38 | 18.5 | 0 |
| Juli 9 | 14.79 | 24 | 64.5 | 18 | 40.09 | 25 | 58.3 | 11 | 20.05 | 32 | 55.0 | 33 | 40.85 | 33 | 18.5 | 5 |
| 19 | 15.03 | 20 | 62.7 | 16 | 40.34 | 21 | 57.2 | 9 | 20.37 | 25 | 58.3 | 36 | 41.18 | 29 | 19.0 | 8 |
| 29 | 15.23 | 16 | 61.1 | 14 | 40.55 | 17 | 56.3 | 6 | 20.62 | 17 | 61.9 | 36 | 41.47 | 23 | 19.8 | 12 |
| Aug. 8 | 15.39 | 11 | 59.7 | 12 | 40.72 | 13 | 55.7 | 4 | 20.79 | 9 | 65.5 | 37 | 41.70 | 16 | 21.0 | 14 |
| 18 | 15.50 | 7 | 58.5 | 10 | 40.85 | 8 | 55.3 | 2 | 20.88 | 2 | 69.2 | 36 | 41.86 | 10 | 22.4 | 17 |
| 28 | 15.57 | 3 | 57.5 | 7 | 40.93 | 3 | 55.1 | 0 | 20.90 | 6 | 72.8 | 35 | 41.96 | 4 | 24.1 | 18 |
| Sept. 7 | 15.60 | 0 | 56.8 | 6 | 40.96 | 0 | 55.1 | 2 | 20.84 | 14 | 76.3 | 34 | 42.00 | 2 | 25.9 | 19 |
| 17 | 15.60 | 5 | 56.2 | 3 | 40.96 | 4 | 55.3 | 4 | 20.70 | 21 | 79.7 | 31 | 41.98 | 8 | 27.8 | 19 |
| 27 | 15.55 | 8 | 55.9 | 1 | 40.92 | 8 | 55.7 | 5 | 20.49 | 26 | 82.8 | 27 | 41.90 | 13 | 29.7 | 18 |
| Okt. 7 | 15.47 | 9 | 55.8 | 0 | 40.84 | 10 | 56.2 | 6 | 20.23 | 31 | 85.5 | 24 | 41.77 | 16 | 31.5 | 17 |
| 17 | 15.38 | 12 | 55.8 | 2 | 40.74 | 12 | 56.8 | 6 | 19.92 | 35 | 87.9 | 19 | 41.61 | 19 | 33.2 | 14 |
| 27 | 15.26 | 12 | 56.0 | 3 | 40.62 | 12 | 57.4 | 7 | 19.57 | 39 | 89.8 | 15 | 41.42 | 21 | 34.6 | 11 |
| Nov. 6 | 15.14 | 13 | 56.3 | 5 | 40.50 | 13 | 58.1 | 6 | 19.18 | 40 | 91.3 | 9 | 41.21 | 22 | 35.7 | 7 |
| 16 | 15.01 | 11 | 56.8 | 5 | 40.37 | 12 | 58.7 | 6 | 18.78 | 41 | 92.2 | 3 | 40.99 | 21 | 36.4 | 4 |
| 26 | 14.90 | 11 | 57.3 | 6 | 40.25 | 11 | 59.3 | 5 | 18.37 | 40 | 92.5 | 2 | 40.78 | 19 | 36.8 | 1 |
| Dez. 6 | 14.79 | 9 | 57.9 | 7 | 40.14 | 10 | 59.8 | 4 | 17.97 | 38 | 92.3 | 9 | 40.59 | 17 | 36.7 | 4 |
| 16 | 14.70 | 8 | 58.6 | 8 | 40.04 | 7 | 60.2 | 3 | 17.59 | 35 | 91.4 | 14 | 40.42 | 14 | 36.3 | 9 |
| 26 | 14.62 | 5 | 59.4 | 8 | 39.97 | 5 | 60.5 | 3 | 17.24 | 32 | 90.0 | 18 | 40.28 | 10 | 35.4 | 12 |
| 36 | 14.57 | | 60.2 | | 39.92 | | 60.8 | | 16.92 | | 88.2 | | 40.18 | | 34.2 | |
| Mittl. Ort | 12.80 | | 69.4 | | 37.93 | | 66.5 | | 18.15 | | 64.2 | | 37.73 | | 33.1 | |
| | 827) | | | | 828) | | | | 830) | | | | 829) | | | |

| 1911 | ϑ Pegasi. $3^m.6$. AR. | | Dekl. + | | π Pegasi. $4^m.3$. AR. | | Dekl. + | | ζ Cephei. $3^m.4$. AR. | | Dekl. + | | 24 Cephei. $4^m.8$. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $22^h\ 5^m$ | | 5° 45′ | | $22^h\ 5^m$ | | 32° 44′ | | $22^h\ 7^m$ | | 57° 45′ | | $22^h\ 8^m$ | | 71° 53′ | |
| Jan. 0 | 41.05 | 4 | 28.0 | 11 | 60.17 | 9 | 28.9 | 19 | 43.32 | 24 | 50.3 | 21 | 2.02 | 50 | 77.7 | 20 |
| 10 | 41.01 | 3 | 26.9 | 10 | 60.08 | 7 | 27.0 | 20 | 43.08 | 19 | 48.2 | 25 | 1.52 | 42 | 75.7 | 24 |
| 20 | 40.98 | 1 | 25.9 | 10 | 60.01 | 4 | 25.0 | 22 | 42.89 | 14 | 45.7 | 27 | 1.10 | 32 | 73.3 | 29 |
| 30 | 40.99 | 3 | 24.9 | 10 | 59.97 | 1 | 22.8 | 23 | 42.75 | 7 | 43.0 | 30 | 0.78 | 20 | 70.4 | 30 |
| Febr. 9 | 41.02 | 7 | 23.9 | 9 | 59.98 | 4 | 20.5 | 24 | 42.68 | 0 | 40.0 | 30 | 0.58 | 7 | 67.4 | 32 |
| 19 | [18] 41.09 | 10 | 23.0 | 6 | [18] 60.02 | 9 | 18.1 | 21 | 42.68 | 8 | 37.0 | 32 | 0.51 | 7 | 64.2 | 35 |
| März 1 | 41.19 | 13 | 22.4 | 3 | 60.11 | 13 | 16.0 | 18 | [19] 42.76 | 14 | 33.8 | 28 | [19] 0.58 | 19 | 60.7 | 31 |
| 11 | 41.32 | 16 | 22.1 | 1 | 60.24 | 17 | 14.2 | 15 | 42.90 | 22 | 31.0 | 24 | 0.77 | 32 | 57.6 | 27 |
| 21 | 41.48 | 19 | 22.0 | 2 | 60.41 | 21 | 12.7 | 11 | 43.12 | 28 | 28.6 | 21 | 1.09 | 43 | 54.9 | 24 |
| 31 | 41.67 | 23 | 22.2 | 5 | 60.62 | 25 | 11.6 | 7 | 43.40 | 34 | 26.5 | 16 | 1.52 | 53 | 52.5 | 19 |
| April 10 | 41.90 | 25 | 22.7 | 9 | 60.87 | 28 | 10.9 | 1 | 43.74 | 40 | 24.9 | 10 | 2.05 | 62 | 50.6 | 14 |
| 20 | 42.15 | 28 | 23.6 | 11 | 61.15 | 30 | 10.8 | 3 | 44.14 | 43 | 23.9 | 4 | 2.67 | 68 | 49.2 | 8 |
| 30 | 42.43 | 30 | 24.7 | 14 | 61.45 | 33 | 11.1 | 8 | 44.57 | 46 | 23.5 | 1 | 3.35 | 72 | 48.4 | 2 |
| Mai 10 | 42.73 | 31 | 26.1 | 17 | 61.78 | 35 | 11.9 | 13 | 45.03 | 48 | 23.6 | 7 | 4.07 | 75 | 48.2 | 4 |
| 20 | 43.04 | 32 | 27.8 | 19 | 62.13 | 34 | 13.2 | 16 | 45.51 | 48 | 24.3 | 13 | 4.82 | 74 | 48.6 | 10 |
| 30 | 43.36 | 32 | 29.7 | 20 | 62.47 | 35 | 14.8 | 21 | 45.99 | 46 | 25.6 | 19 | 5.56 | 71 | 49.6 | 16 |
| Juni 9 | 43.68 | 31 | 31.7 | 21 | 62.82 | 33 | 16.9 | 24 | 46.45 | 45 | 27.5 | 22 | 6.27 | 67 | 51.2 | 21 |
| 19 | 43.99 | 29 | 33.8 | 21 | 63.15 | 31 | 19.3 | 26 | 46.90 | 40 | 29.7 | 27 | 6.94 | 61 | 53.3 | 26 |
| 29 | 44.28 | 27 | 35.9 | 21 | 63.46 | 28 | 21.9 | 28 | 47.30 | 36 | 32.4 | 31 | 7.55 | 52 | 55.9 | 29 |
| Juli 9 | 44.55 | 23 | 38.0 | 20 | 63.74 | 24 | 24.7 | 30 | 47.66 | 31 | 35.5 | 33 | 8.07 | 44 | 58.8 | 33 |
| 19 | 44.78 | 20 | 40.0 | 20 | 63.98 | 20 | 27.7 | 30 | 47.97 | 24 | 38.8 | 34 | 8.51 | 33 | 62.1 | 35 |
| 29 | 44.98 | 16 | 42.0 | 17 | 64.18 | 16 | 30.7 | 29 | 48.21 | 18 | 42.2 | 36 | 8.84 | 22 | 65.6 | 37 |
| Aug. 8 | 45.14 | 12 | 43.7 | 16 | 64.34 | 10 | 33.6 | 29 | 48.39 | 10 | 45.8 | 36 | 9.06 | 11 | 69.3 | 38 |
| 18 | 45.26 | 8 | 45.3 | 14 | 64.44 | 6 | 36.5 | 27 | 48.49 | 3 | 49.4 | 36 | 9.17 | 0 | 73.1 | 37 |
| 28 | 45.34 | 3 | 46.7 | 11 | 64.50 | 1 | 39.2 | 26 | 48.52 | 3 | 53.0 | 34 | 9.17 | 12 | 76.8 | 37 |
| Sept. 7 | 45.37 | 1 | 47.8 | 10 | 64.51 | 3 | 41.8 | 23 | 48.49 | 10 | 56.4 | 33 | 9.05 | 23 | 80.5 | 35 |
| 17 | 45.36 | 4 | 48.8 | 7 | 64.48 | 7 | 44.1 | 21 | 48.39 | 15 | 59.7 | 30 | 8.82 | 32 | 84.0 | 33 |
| 27 | 45.32 | 8 | 49.5 | 4 | 64.41 | 11 | 46.2 | 17 | 48.24 | 21 | 62.7 | 27 | 8.50 | 41 | 87.3 | 30 |
| Okt. 7 | 45.24 | 10 | 49.9 | 3 | 64.30 | 13 | 47.9 | 14 | 48.03 | 26 | 65.4 | 22 | 8.09 | 48 | 90.3 | 27 |
| 17 | 45.14 | 11 | 50.2 | 0 | 64.17 | 15 | 49.3 | 10 | 47.77 | 29 | 67.6 | 19 | 7.61 | 56 | 93.0 | 22 |
| 27 | 45.03 | 12 | 50.2 | 1 | 64.02 | 17 | 50.3 | 7 | 47.48 | 32 | 69.5 | 14 | 7.05 | 61 | 95.2 | 18 |
| Nov. 6 | 44.91 | 12 | 50.1 | 4 | 63.85 | 17 | 51.0 | 2 | 47.16 | 32 | 70.9 | 9 | 6.44 | 64 | 97.0 | 12 |
| 16 | 44.79 | 13 | 49.7 | 5 | 63.68 | 17 | 51.2 | 2 | 46.84 | 34 | 71.8 | 3 | 5.80 | 66 | 98.2 | 6 |
| 26 | 44.66 | 11 | 49.2 | 6 | 63.51 | 16 | 51.0 | 6 | 46.50 | 34 | 72.1 | 2 | 5.14 | 65 | 98.8 | 0 |
| Dez. 6 | 44.55 | 9 | 48.6 | 8 | 63.35 | 15 | 50.4 | 10 | 46.16 | 31 | 71.9 | 8 | 4.49 | 64 | 98.8 | 5 |
| 16 | 44.46 | 8 | 47.8 | 9 | 63.20 | 13 | 49.4 | 13 | 45.85 | 29 | 71.1 | 14 | 3.85 | 60 | 98.3 | 12 |
| 26 | 44.38 | 6 | 46.9 | 10 | 63.07 | 11 | 48.1 | 17 | 45.56 | 26 | 69.7 | 18 | 3.25 | 53 | 97.1 | 18 |
| 36 | 44.32 | | 45.9 | | 62.96 | | 46.4 | | 45.30 | | 67.9 | | 2.72 | | 95.3 | |
| Mittl. Ort | 42.63 | | 34.6 | | 62.00 | | 28.1 | | 45.87 | | 44.1 | | 5.94 | | 69.5 | |
| | 834) | | | | 835) | | | | 836) | | | | 837) | | | |

| 1911 | ϑ Aquarii. 4ᵐ.2. | | | | α Tucanae. 2ᵐ.8. | | | | γ Aquarii. 3ᵐ.7 | | | | 3 Lacertae. 4ᵐ.5. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. − | | AR. | | Dekl. − | | AR. | | Dekl. − | | AR. | | Dekl. + | |
| | 22ʰ 12ᵐ | | 8° 13′ | | 22ʰ 12ᵐ | | 60° 41′ | | 22ʰ 17ᵐ | | 1° 49′ | | 22ʰ 20ᵐ | | 51° 46′ | |
| Jan. 0 | 6.81 | 5 | 47.0 | 5 | 22.81 | 16 | 95.1 | 19 | 2.10 | 5 | 79.0 | 7 | 1.24 | 19 | 63.9 | 19 |
| 10 | 6.76 | 2 | 47.5 | 3 | 22.65 | 10 | 93.2 | 22 | 2.05 | 3 | 79.7 | 6 | 1.05 | 16 | 62.0 | 23 |
| 20 | 6.74 | 1 | 47.8 | 3 | 22.55 | 5 | 91.0 | 26 | 2.02 | 0 | 80.3 | 6 | 0.89 | 12 | 59.7 | 26 |
| 30 | 6.75 | 3 | 48.1 | 1 | 22.50 | 2 | 88.4 | 28 | 2.02 | 3 | 80.9 | 5 | 0.77 | 6 | 57.1 | 28 |
| Febr. 9 | 6.78 | 6 | 48.2 | 0 | 22.52 | 9 | 85.6 | 30 | 2.05 | 5 | 81.4 | 3 | 0.71 | 1 | 54.3 | 28 |
| 19 | 6.84 | 11 | 48.2 | 3 | 22.61 | 17 | 82.6 | 35 | 2.10 | 10 | 81.7 | 2 | 0.70 | 6 | 51.5 | 31 |
| März 1 | [20] 6.95 | 13 | 47.9 | 5 | [20] 22.78 | 22 | 79.1 | 31 | [21] 2.20 | 12 | 81.9 | 1 | [22] 0.76 | 12 | 48.4 | 26 |
| 11 | 7.08 | 16 | 47.4 | 7 | 23.00 | 29 | 76.0 | 31 | 2.32 | 15 | 81.8 | 4 | 0.88 | 18 | 45.8 | 23 |
| 21 | 7.24 | 19 | 46.7 | 9 | 23.29 | 34 | 72.9 | 30 | 2.47 | 19 | 81.4 | 6 | 1.06 | 24 | 43.5 | 19 |
| 31 | 7.43 | 22 | 45.8 | 12 | 23.63 | 40 | 69.9 | 29 | 2.66 | 22 | 80.8 | 8 | 1.30 | 30 | 41.6 | 15 |
| April 10 | 7.65 | 26 | 44.6 | 14 | 24.03 | 45 | 67.0 | 27 | 2.88 | 25 | 80.0 | 12 | 1.60 | 34 | 40.1 | 10 |
| 20 | 7.91 | 28 | 43.2 | 15 | 24.48 | 49 | 64.3 | 24 | 3.13 | 27 | 78.8 | 14 | 1.94 | 37 | 39.1 | 3 |
| 30 | 8.19 | 30 | 41.7 | 17 | 24.97 | 53 | 61.9 | 21 | 3.40 | 29 | 77.4 | 16 | 2.31 | 41 | 38.8 | 1 |
| Mai 10 | 8.49 | 31 | 40.0 | 18 | 25.50 | 55 | 59.8 | 17 | 3.69 | 32 | 75.8 | 17 | 2.72 | 43 | 38.9 | 7 |
| 20 | 8.80 | 33 | 38.2 | 19 | 26.05 | 57 | 58.1 | 14 | 4.01 | 31 | 74.1 | 19 | 3.15 | 43 | 39.6 | 13 |
| 30 | 9.13 | 32 | 36.3 | 19 | 26.62 | 57 | 56.7 | 8 | 4.32 | 32 | 72.2 | 19 | 3.58 | 42 | 40.9 | 18 |
| Juni 9 | 9.45 | 32 | 34.4 | 18 | 27.19 | 56 | 55.9 | 4 | 4.64 | 32 | 70.3 | 20 | 4.00 | 41 | 42.7 | 22 |
| 19 | 9.77 | 30 | 32.6 | 18 | 27.75 | 53 | 55.5 | 0 | 4.96 | 30 | 68.3 | 20 | 4.41 | 38 | 44.9 | 26 |
| 29 | 10.07 | 28 | 30.8 | 16 | 28.28 | 49 | 55.5 | 5 | 5.26 | 27 | 66.3 | 19 | 4.79 | 34 | 47.5 | 30 |
| Juli 9 | 10.35 | 25 | 29.2 | 15 | 28.77 | 44 | 56.0 | 9 | 5.53 | 25 | 64.4 | 17 | 5.13 | 30 | 50.5 | 32 |
| 19 | 10.60 | 21 | 27.7 | 12 | 29.21 | 38 | 56.9 | 14 | 5.78 | 21 | 62.7 | 16 | 5.43 | 24 | 53.7 | 33 |
| 29 | 10.81 | 18 | 26.5 | 10 | 29.59 | 30 | 58.3 | 17 | 5.99 | 18 | 61.1 | 14 | 5.67 | 19 | 57.0 | 35 |
| Aug. 8 | 10.99 | 13 | 25.5 | 8 | 29.89 | 23 | 60.0 | 20 | 6.17 | 13 | 59.7 | 12 | 5.86 | 12 | 60.5 | 34 |
| 18 | 11.12 | 8 | 24.7 | 6 | 30.12 | 14 | 62.0 | 22 | 6.30 | 9 | 58.5 | 9 | 5.98 | 7 | 63.9 | 35 |
| 28 | 11.20 | 5 | 24.1 | 3 | 30.26 | 5 | 64.2 | 24 | 6.39 | 5 | 57.6 | 7 | 6.05 | 0 | 67.4 | 33 |
| Sept. 7 | 11.25 | 0 | 23.8 | 1 | 30.31 | 4 | 66.6 | 24 | 6.44 | 0 | 56.9 | 5 | 6.05 | 5 | 70.7 | 31 |
| 17 | 11.25 | 3 | 23.7 | 0 | 30.27 | 11 | 69.0 | 24 | 6.44 | 3 | 56.4 | 3 | 6.00 | 10 | 73.8 | 29 |
| 27 | 11.22 | 7 | 23.7 | 2 | 30.16 | 18 | 71.4 | 22 | 6.41 | 6 | 56.1 | 1 | 5.90 | 15 | 76.7 | 26 |
| Okt. 7 | 11.15 | 9 | 23.9 | 4 | 29.98 | 24 | 73.6 | 20 | 6.35 | 9 | 56.0 | 1 | 5.75 | 20 | 79.3 | 22 |
| 17 | 11.06 | 11 | 24.3 | 4 | 29.74 | 29 | 75.6 | 16 | 6.26 | 10 | 56.1 | 2 | 5.55 | 22 | 81.5 | 18 |
| 27 | 10.95 | 12 | 24.7 | 6 | 29.45 | 32 | 77.2 | 13 | 6.16 | 12 | 56.3 | 3 | 5.33 | 25 | 83.3 | 13 |
| Nov. 6 | 10.83 | 12 | 25.3 | 5 | 29.13 | 33 | 78.5 | 7 | 6.04 | 12 | 56.6 | 5 | 5.08 | 26 | 84.6 | 9 |
| 16 | 10.71 | 12 | 25.8 | 6 | 28.80 | 33 | 79.2 | 3 | 5.92 | 11 | 57.1 | 6 | 4.82 | 27 | 85.5 | 3 |
| 26 | 10.59 | 11 | 26.4 | 6 | 28.47 | 31 | 79.5 | 2 | 5.81 | 11 | 57.7 | 6 | 4.55 | 27 | 85.8 | 2 |
| Dez. 6 | 10.48 | 9 | 27.0 | 6 | 28.16 | 28 | 79.3 | 7 | 5.70 | 10 | 58.3 | 7 | 4.28 | 25 | 85.6 | 7 |
| 16 | 10.39 | 8 | 27.6 | 5 | 27.88 | 24 | 78.6 | 13 | 5.60 | 8 | 59.0 | 7 | 4.03 | 24 | 84.9 | 12 |
| 26 | 10.31 | 5 | 28.1 | 4 | 27.64 | 20 | 77.3 | 17 | 5.52 | 5 | 59.7 | 6 | 3.79 | 22 | 83.7 | 17 |
| 36 | 10.26 | | 28.5 | | 27.44 | | 75.6 | | 5.47 | | 60.3 | | 3.57 | | 82.0 | |
| Mittl. Ort | 8.31 | | 36.5 | | 24.79 | | 73.0 | | 3.59 | | 70.3 | | 3.47 | | 58.2 | |
| | 840) | | | | 841) | | | | 842) | | | | 844) | | | |

| 1911 | 7 Lacertae. 3^m.8. AR. | | Dekl. + | | η Aquarii. 3^m.9. AR. | | Dekl. — | | 10 Lacertae. 4^m.9. AR. | | Dekl. + | | ζ Pegasi. 3^m.3. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 22^h 27^m | | 49° 49′ | | 22^h 30^m | | 0° 34′ | | 22^h 35^m | | 38° 34′ | | 22^h 36^m | | 10° 21′ | |
| Jan. 0 | 35.23 | 18 | 34.5 | 19 | 45.58 | 6 | 43.7 | 7 | 14.15 | 13 | 75.9 | 17 | 59.92 | 8 | 54.7 | 11 |
| 10 | 35.05 | 16 | 32.6 | 22 | 45.52 | 3 | 44.4 | 7 | 14.02 | 11 | 74.2 | 20 | 59.84 | 5 | 53.6 | 12 |
| 20 | 34.89 | 11 | 30.4 | 25 | 45.49 | 2 | 45.1 | 6 | 13.91 | 8 | 72.2 | 22 | 59.79 | 2 | 52.4 | 11 |
| 30 | 34.78 | 7 | 27.9 | 27 | 45.47 | 1 | 45.7 | 6 | 13.83 | 4 | 70.0 | 23 | 59.77 | 1 | 51.3 | 11 |
| Febr. 9 | 34.71 | 1 | 25.2 | 27 | 45.48 | 4 | 46.3 | 4 | 13.79 | 0 | 67.7 | 24 | 59.76 | 3 | 50.2 | 10 |
| 19 | 34.70 | 5 | 22.5 | 30 | 45.52 | 8 | 46.7 | 2 | 13.79 | 5 | 65.3 | 25 | 59.79 | 7 | 49.2 | 9 |
| März 1 | [21] 34.75 | 11 | 19.5 | 26 | [25] 45.60 | 11 | 46.9 | 1 | [26] 13.84 | 10 | 62.8 | 21 | [26] 59.86 | 10 | 48.3 | 7 |
| 11 | 34.86 | 17 | 16.9 | 22 | 45.71 | 14 | 46.8 | 3 | 13.94 | 14 | 60.7 | 18 | 59.96 | 13 | 47.6 | 3 |
| 21 | 35.03 | 22 | 14.7 | 19 | 45.85 | 17 | 46.5 | 5 | 14.08 | 19 | 58.9 | 15 | 60.09 | 17 | 47.3 | 0 |
| 31 | 35.25 | 28 | 12.8 | 14 | 46.02 | 21 | 46.0 | 8 | 14.27 | 23 | 57.4 | 10 | 60.26 | 20 | 47.3 | 3 |
| April 10 | 35.53 | 32 | 11.4 | 10 | 46.23 | 24 | 45.2 | 11 | 14.50 | 27 | 56.4 | 6 | 60.46 | 23 | 47.6 | 6 |
| 20 | 35.85 | 36 | 10.4 | 4 | 46.47 | 26 | 44.1 | 13 | 14.77 | 31 | 55.8 | 1 | 60.69 | 27 | 48.2 | 9 |
| 30 | 36.21 | 39 | 10.0 | 2 | 46.73 | 29 | 42.8 | 16 | 15.08 | 34 | 55.7 | 4 | 60.96 | 28 | 49.1 | 13 |
| Mai 10 | 36.60 | 41 | 10.2 | 7 | 47.02 | 31 | 41.2 | 18 | 15.42 | 35 | 56.1 | 10 | 61.24 | 31 | 50.4 | 15 |
| 20 | 37.01 | 42 | 10.9 | 12 | 47.33 | 32 | 39.4 | 19 | 15.77 | 37 | 57.1 | 14 | 61.55 | 32 | 51.9 | 19 |
| 30 | 37.43 | 42 | 12.1 | 17 | 47.65 | 32 | 37.5 | 20 | 16.14 | 37 | 58.5 | 18 | 61.87 | 32 | 53.8 | 20 |
| Juni 9 | 37.85 | 40 | 13.8 | 22 | 47.97 | 32 | 35.5 | 20 | 16.51 | 36 | 60.3 | 22 | 62.19 | 32 | 55.8 | 21 |
| 19 | 38.25 | 38 | 16.0 | 26 | 48.29 | 30 | 33.5 | 20 | 16.87 | 34 | 62.5 | 25 | 62.51 | 30 | 57.9 | 22 |
| 29 | 38.63 | 34 | 18.6 | 29 | 48.59 | 28 | 31.5 | 19 | 17.21 | 31 | 65.0 | 27 | 62.81 | 29 | 60.1 | 23 |
| Juli 9 | 38.97 | 30 | 21.5 | 31 | 48.87 | 26 | 29.6 | 19 | 17.52 | 28 | 67.7 | 30 | 63.10 | 26 | 62.4 | 22 |
| 19 | 39.27 | 25 | 24.6 | 33 | 49.13 | 22 | 27.7 | 16 | 17.80 | 24 | 70.7 | 31 | 63.36 | 22 | 64.6 | 22 |
| 29 | 39.52 | 19 | 27.9 | 34 | 49.35 | 19 | 26.1 | 15 | 18.04 | 19 | 73.8 | 31 | 63.58 | 18 | 66.8 | 20 |
| Aug. 8 | 39.71 | 14 | 31.3 | 35 | 49.54 | 14 | 24.6 | 13 | 18.23 | 14 | 76.9 | 31 | 63.76 | 15 | 68.8 | 19 |
| 18 | 39.85 | 8 | 34.8 | 34 | 49.68 | 10 | 23.3 | 10 | 18.37 | 9 | 80.0 | 30 | 63.91 | 10 | 70.7 | 17 |
| 28 | 39.93 | 2 | 38.2 | 33 | 49.78 | 6 | 22.3 | 8 | 18.46 | 5 | 83.0 | 29 | 64.01 | 7 | 72.4 | 14 |
| Sept. 7 | 39.95 | 3 | 41.5 | 31 | 49.84 | 2 | 21.5 | 6 | 18.51 | 0 | 85.9 | 27 | 64.08 | 2 | 73.8 | 13 |
| 17 | 39.92 | 9 | 44.6 | 28 | 49.86 | 2 | 20.9 | 4 | 18.51 | 5 | 88.6 | 24 | 64.10 | 2 | 75.1 | 10 |
| 27 | 39.83 | 13 | 47.4 | 26 | 49.84 | 5 | 20.5 | 1 | 18.46 | 9 | 91.0 | 22 | 64.08 | 5 | 76.1 | 7 |
| Okt. 7 | 39.70 | 17 | 50.0 | 22 | 49.79 | 7 | 20.4 | 0 | 18.37 | 11 | 93.2 | 18 | 64.03 | 7 | 76.8 | 5 |
| 17 | 39.53 | 20 | 52.2 | 18 | 49.72 | 10 | 20.4 | 1 | 18.26 | 15 | 95.0 | 15 | 63.96 | 10 | 77.3 | 3 |
| 27 | 39.33 | 23 | 54.0 | 14 | 49.62 | 11 | 20.5 | 3 | 18.11 | 16 | 96.5 | 10 | 63.86 | 11 | 77.6 | 1 |
| Nov. 6 | 39.10 | 24 | 55.4 | 9 | 49.51 | 11 | 20.8 | 5 | 17.95 | 18 | 97.5 | 7 | 63.75 | 11 | 77.7 | 2 |
| 16 | 38.86 | 25 | 56.3 | 4 | 49.40 | 12 | 21.3 | 5 | 17.77 | 18 | 98.2 | 2 | 63.64 | 12 | 77.5 | 4 |
| 26 | 38.61 | 25 | 56.7 | 2 | 49.28 | 11 | 21.8 | 6 | 17.59 | 18 | 98.4 | 3 | 63.52 | 12 | 77.1 | 5 |
| Dez. 6 | 38.36 | 24 | 56.5 | 6 | 49.17 | 10 | 22.4 | 7 | 17.41 | 18 | 98.1 | 7 | 63.40 | 10 | 76.6 | 7 |
| 16 | 38.12 | 22 | 55.9 | 12 | 49.07 | 8 | 23.1 | 7 | 17.23 | 16 | 97.4 | 11 | 63.30 | 10 | 75.9 | 9 |
| 26 | 37.90 | 20 | 54.7 | 16 | 48.99 | 7 | 23.8 | 7 | 17.07 | 14 | 96.3 | 14 | 63.20 | 8 | 75.0 | 10 |
| 36 | 37.70 | | 53.1 | | 48.92 | | 24.5 | | 16.93 | | 94.9 | | 63.12 | | 74.0 | |
| Mittl. Ort | 37.34 | | 28.7 | | 47.01 | | 35.6 | | 15.94 | | 72.4 | | 61.37 | | 59.2 | |
| | 848) | | | | 850) | | | | 852) | | | | 855) | | | |

| 1911 | β Gruis. $2^m.0$ | | | | η Pegasi. $2^m.9$ | | | | λ Pegasi. $3^m.9$ | | | | ε Gruis. $3^m.5$ | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. − | | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. − | |
| | $22^h\ 37^m$ | | 47° 20′ | | $22^h\ 38^m$ | | 29° 45′ | | $22^h\ 42^m$ | | 23° 5′ | | $22^h\ 43^m$ | | 51° 46′ | |
| Jan. 0 | 19.96 s | 12 | 82.0″ | 11 | 48.07 s | 10 | 20.8″ | 15 | 13.03 s | 9 | 48.7″ | 14 | 9.57 s | 14 | 88.0″ | 13 |
| 10 | 19.84 | 9 | 80.9 | 16 | 47.97 | 9 | 19.3 | 18 | 12.94 | 7 | 47.3 | 15 | 9.43 | 11 | 86.7 | 17 |
| 20 | 19.75 | 4 | 79.3 | 18 | 47.88 | 6 | 17.5 | 19 | 12.87 | 5 | 45.8 | 17 | 9.32 | 7 | 85.0 | 20 |
| 30 | 19.71 | 1 | 77.5 | 21 | 47.82 | 2 | 15.6 | 20 | 12.82 | 2 | 44.1 | 17 | 9.25 | 2 | 83.0 | 23 |
| Febr. 9 | 19.70 | 4 | 75.4 | 24 | 47.80 | 1 | 13.6 | 20 | 12.80 | 1 | 42.4 | 16 | 9.23 | 3 | 80.7 | 26 |
| 19 | 19.74 | 10 | 73.0 | 29 | 47.81 | 5 | 11.6 | 20 | 12.81 | 6 | 40.8 | 17 | 9.26 | 9 | 78.1 | 31 |
| März 1 | [26] 19.84 | 13 | 70.1 | 27 | [27] 47.86 | 9 | 9.6 | 17 | [28] 12.87 | 8 | 39.1 | 14 | [28] 9.35 | 13 | 75.0 | 29 |
| 11 | 19.97 | 19 | 67.4 | 28 | 47.95 | 13 | 7.9 | 14 | 12.95 | 13 | 37.7 | 10 | 9.48 | 18 | 72.1 | 30 |
| 21 | 20.16 | 23 | 64.6 | 28 | 48.08 | 18 | 6.5 | 11 | 13.08 | 17 | 36.7 | 7 | 9.66 | 24 | 69.1 | 30 |
| 31 | 20.39 | 27 | 61.8 | 27 | 48.26 | 21 | 5.4 | 6 | 13.25 | 20 | 36.0 | 4 | 9.90 | 28 | 66.1 | 29 |
| April 10 | 20.66 | 31 | 59.1 | 27 | 48.47 | 25 | 4.8 | 3 | 13.45 | 24 | 35.6 | 0 | 10.18 | 33 | 63.2 | 29 |
| 20 | 20.97 | 35 | 56.4 | 26 | 48.72 | 29 | 4.5 | 3 | 13.69 | 28 | 35.6 | 5 | 10.51 | 38 | 60.3 | 27 |
| 30 | 21.32 | 39 | 53.8 | 24 | 49.01 | 31 | 4.8 | 6 | 13.97 | 30 | 36.1 | 9 | 10.89 | 41 | 57.6 | 24 |
| Mai 10 | 21.71 | 42 | 51.4 | 21 | 49.32 | 33 | 5.4 | 12 | 14.27 | 31 | 37.0 | 12 | 11.30 | 43 | 55.2 | 21 |
| 20 | 22.13 | 42 | 49.3 | 18 | 49.65 | 34 | 6.6 | 15 | 14.58 | 33 | 38.2 | 16 | 11.73 | 46 | 53.1 | 18 |
| 30 | 22.55 | 44 | 47.5 | 14 | 49.99 | 35 | 8.1 | 19 | 14.91 | 34 | 39.8 | 19 | 12.19 | 47 | 51.3 | 15 |
| Juni 9 | 22.99 | 43 | 46.1 | 11 | 50.34 | 34 | 10.0 | 22 | 15.25 | 33 | 41.7 | 22 | 12.66 | 46 | 49.8 | 10 |
| 19 | 23.42 | 42 | 45.0 | 7 | 50.68 | 33 | 12.2 | 24 | 15.58 | 31 | 43.9 | 24 | 13.12 | 46 | 48.8 | 6 |
| 29 | 23.84 | 40 | 44.3 | 3 | 51.01 | 30 | 14.6 | 27 | 15.89 | 30 | 46.3 | 26 | 13.58 | 43 | 48.2 | 2 |
| Juli 9 | 24.24 | 37 | 44.0 | 2 | 51.31 | 27 | 17.3 | 28 | 16.19 | 26 | 48.9 | 26 | 14.01 | 39 | 48.0 | 3 |
| 19 | 24.61 | 32 | 44.2 | 5 | 51.58 | 23 | 20.1 | 28 | 16.45 | 23 | 51.5 | 26 | 14.40 | 35 | 48.3 | 7 |
| 29 | 24.93 | 26 | 44.7 | 10 | 51.81 | 19 | 22.9 | 28 | 16.68 | 20 | 54.1 | 25 | 14.75 | 29 | 49.0 | 11 |
| Aug. 8 | 25.19 | 21 | 45.7 | 13 | 52.00 | 14 | 25.7 | 28 | 16.88 | 15 | 56.6 | 25 | 15.04 | 23 | 50.1 | 15 |
| 18 | 25.40 | 15 | 47.0 | 15 | 52.14 | 10 | 28.5 | 26 | 17.03 | 10 | 59.1 | 24 | 15.27 | 17 | 51.6 | 18 |
| 28 | 25.55 | 9 | 48.5 | 18 | 52.24 | 5 | 31.1 | 25 | 17.13 | 6 | 61.5 | 22 | 15.44 | 10 | 53.4 | 20 |
| Sept. 7 | 25.64 | 2 | 50.3 | 20 | 52.29 | 1 | 33.6 | 23 | 17.19 | 2 | 63.7 | 19 | 15.54 | 3 | 55.4 | 21 |
| 17 | 25.66 | 3 | 52.3 | 20 | 52.30 | 3 | 35.9 | 20 | 17.21 | 2 | 65.6 | 17 | 15.57 | 4 | 57.5 | 22 |
| 27 | 25.63 | 9 | 54.3 | 20 | 52.27 | 6 | 37.9 | 18 | 17.19 | 5 | 67.3 | 15 | 15.53 | 9 | 59.7 | 21 |
| Okt. 7 | 25.54 | 13 | 56.3 | 19 | 52.21 | 9 | 39.7 | 14 | 17.14 | 8 | 68.8 | 11 | 15.44 | 14 | 61.8 | 21 |
| 17 | 25.41 | 17 | 58.2 | 17 | 52.12 | 12 | 41.1 | 12 | 17.06 | 11 | 69.9 | 9 | 15.30 | 18 | 63.9 | 18 |
| 27 | 25.24 | 19 | 59.9 | 14 | 52.00 | 14 | 42.3 | 7 | 16.95 | 12 | 70.8 | 5 | 15.12 | 22 | 65.7 | 15 |
| Nov. 6 | 25.05 | 21 | 61.3 | 11 | 51.86 | 15 | 43.0 | 4 | 16.83 | 13 | 71.3 | 2 | 14.90 | 23 | 67.2 | 12 |
| 16 | 24.84 | 21 | 62.4 | 7 | 51.71 | 15 | 43.4 | 1 | 16.70 | 13 | 71.5 | 1 | 14.67 | 24 | 68.4 | 7 |
| 26 | 24.63 | 20 | 63.1 | 3 | 51.56 | 15 | 43.5 | 4 | 16.57 | 14 | 71.4 | 4 | 14.43 | 24 | 69.1 | 3 |
| Dez. 6 | 24.43 | 19 | 63.4 | 2 | 51.41 | 14 | 43.1 | 7 | 16.43 | 12 | 71.0 | 7 | 14.19 | 22 | 69.4 | 2 |
| 16 | 24.24 | 16 | 63.2 | 5 | 51.27 | 13 | 42.4 | 10 | 16.31 | 12 | 70.3 | 10 | 13.97 | 19 | 69.2 | 6 |
| 26 | 24.08 | 14 | 62.7 | 10 | 51.14 | 12 | 41.4 | 14 | 16.19 | 10 | 69.3 | 12 | 13.78 | 17 | 68.6 | 11 |
| 36 | 23.94 | | 61.7 | | 51.02 | | 40.0 | | 16.09 | | 68.1 | | 13.61 | | 67.5 | |
| Mittl. Ort | 21.39 | | 61.5 | | 49.71 | | 19.6 | | 14.57 | | 49.2 | | 10.99 | | 66.6 | |
| | 856) | | | | 857) | | | | 859) | | | | 860) | | | |

| 1911 | ι Cephei. 3m.5. | | | | λ Aquarii. 3m.8. | | | | ρ Indi. 6m.3. | | | | δ Aquarii. 3m.2. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. — | | AR. | | Dekl. — | | AR. | | Dekl. — | |
| | 22h 46m | | 65° 43′ | | 22h 47m | | 8° 2′ | | 22h 48m | | 70° 32′ | | 22h 49m | | 16° 17′ | |
| Jan. 0 | 27.69 | 39 | 65.4 | 16 | 57.03 | 7 | 82.6 | 4 | 27.03 | 37 | 81.7 | 19 | 54.42 | 7 | 52.4 | 1 |
| 10 | 27.30 | 34 | 63.8 | 21 | 56.96 | 5 | 83.0 | 4 | 26.66 | 29 | 79.8 | 24 | 54.35 | 5 | 52.5 | 0 |
| 20 | 26.96 | 28 | 61.7 | 25 | 56.91 | 3 | 83.4 | 2 | 26.37 | 22 | 77.4 | 28 | 54.30 | 3 | 52.5 | 2 |
| 30 | 26.68 | 20 | 59.2 | 28 | 56.88 | 0 | 83.6 | 0 | 26.15 | 12 | 74.6 | 31 | 54.27 | 0 | 52.3 | 4 |
| Febr. 9 | 26.48 | 12 | 56.4 | 30 | 56.88 | 3 | 83.6 | 1 | 26.03 | 2 | 71.5 | 33 | 54.27 | 2 | 51.9 | 6 |
| 19 | 26.36 | 3 | 53.4 | 31 | 56.91 | 5 | 83.5 | 2 | 26.01 | 7 | 68.2 | 36 | 54.29 | 6 | 51.3 | 8 |
| März 1 | 26.33 | 8 | 50.3 | 32 | 56.96 | 10 | 83.3 | 6 | 26.08 | 20 | 64.6 | 39 | 54.35 | 10 | 50.5 | 11 |
| 11 | 26.41 | 18 | 47.1 | 28 | 57.06 | 13 | 82.7 | 7 | 26.28 | 27 | 60.7 | 36 | 54.45 | 13 | 49.4 | 13 |
| 21 | 26.59 | 27 | 44.3 | 25 | 57.19 | 16 | 82.0 | 10 | 26.55 | 37 | 57.1 | 35 | 54.58 | 16 | 48.1 | 14 |
| 31 | 26.86 | 36 | 41.8 | 21 | 57.35 | 19 | 81.0 | 13 | 26.92 | 45 | 53.6 | 34 | 54.74 | 20 | 46.7 | 16 |
| April 10 | 27.22 | 43 | 39.7 | 16 | 57.54 | 23 | 79.7 | 14 | 27.37 | 54 | 50.2 | 31 | 54.94 | 23 | 45.1 | 18 |
| 20 | 27.65 | 50 | 38.1 | 10 | 57.77 | 26 | 78.3 | 16 | 27.91 | 62 | 47.1 | 28 | 55.17 | 26 | 43.3 | 19 |
| 30 | 28.15 | 54 | 37.1 | 5 | 58.03 | 28 | 76.7 | 18 | 28.53 | 67 | 44.3 | 25 | 55.43 | 29 | 41.4 | 20 |
| Mai 10 | 28.69 | 58 | 36.6 | 1 | 58.31 | 31 | 74.9 | 19 | 29.20 | 72 | 41.8 | 21 | 55.72 | 31 | 39.4 | 20 |
| 20 | 29.27 | 60 | 36.7 | 6 | 58.62 | 31 | 73.0 | 20 | 29.92 | 76 | 39.7 | 16 | 56.03 | 33 | 37.4 | 21 |
| 30 | 29.87 | 60 | 37.3 | 12 | 58.93 | 33 | 71.0 | 20 | 30.68 | 77 | 38.1 | 11 | 56.36 | 33 | 35.3 | 19 |
| Juni 9 | 30.47 | 57 | 38.5 | 18 | 59.26 | 32 | 69.0 | 20 | 31.45 | 78 | 37.0 | 7 | 56.69 | 33 | 33.4 | 19 |
| 19 | 31.04 | 55 | 40.3 | 23 | 59.58 | 32 | 67.0 | 18 | 32.23 | 76 | 36.3 | 1 | 57.02 | 33 | 31.5 | 16 |
| 29 | 31.59 | 49 | 42.6 | 27 | 59.90 | 30 | 65.2 | 17 | 32.99 | 71 | 36.2 | 4 | 57.35 | 30 | 29.9 | 15 |
| Juli 9 | 32.08 | 43 | 45.3 | 30 | 60.20 | 27 | 63.5 | 16 | 33.70 | 65 | 36.6 | 9 | 57.65 | 28 | 28.4 | 13 |
| 19 | 32.51 | 36 | 48.3 | 34 | 60.47 | 24 | 61.9 | 14 | 34.35 | 58 | 37.5 | 14 | 57.93 | 25 | 27.1 | 10 |
| 29 | 32.87 | 29 | 51.7 | 35 | 60.71 | 20 | 60.5 | 11 | 34.93 | 49 | 38.9 | 18 | 58.18 | 22 | 26.1 | 7 |
| Aug. 8 | 33.16 | 20 | 55.2 | 37 | 60.91 | 16 | 59.4 | 9 | 35.42 | 38 | 40.7 | 22 | 58.40 | 17 | 25.4 | 4 |
| 18 | 33.36 | 12 | 58.9 | 37 | 61.07 | 12 | 58.5 | 7 | 35.80 | 27 | 42.9 | 25 | 58.57 | 13 | 25.0 | 2 |
| 28 | 33.48 | 4 | 62.6 | 37 | 61.19 | 8 | 57.8 | 4 | 36.07 | 14 | 45.4 | 26 | 58.70 | 8 | 24.8 | 1 |
| Sept. 7 | 33.52 | 6 | 66.3 | 36 | 61.27 | 4 | 57.4 | 1 | 36.21 | 2 | 48.0 | 28 | 58.78 | 4 | 24.9 | 3 |
| 17 | 33.46 | 13 | 69.9 | 34 | 61.31 | 0 | 57.3 | 0 | 36.23 | 10 | 50.8 | 28 | 58.82 | 0 | 25.2 | 6 |
| 27 | 33.33 | 20 | 73.3 | 32 | 61.31 | 4 | 57.3 | 3 | 36.13 | 22 | 53.6 | 26 | 58.82 | 3 | 25.8 | 6 |
| Okt. 7 | 33.13 | 27 | 76.5 | 29 | 61.27 | 6 | 57.6 | 3 | 35.91 | 32 | 56.2 | 24 | 58.79 | 7 | 26.4 | 8 |
| 17 | 32.86 | 32 | 79.4 | 24 | 61.21 | 8 | 57.9 | 5 | 35.59 | 40 | 58.6 | 20 | 58.72 | 9 | 27.2 | 8 |
| 27 | 32.54 | 37 | 81.8 | 21 | 61.13 | 10 | 58.4 | 5 | 35.19 | 46 | 60.6 | 16 | 58.63 | 10 | 28.0 | 8 |
| Nov. 6 | 32.17 | 42 | 83.9 | 16 | 61.03 | 11 | 58.9 | 7 | 34.73 | 50 | 62.2 | 12 | 58.53 | 11 | 28.8 | 8 |
| 16 | 31.75 | 43 | 85.5 | 10 | 60.92 | 12 | 59.6 | 6 | 34.23 | 53 | 63.4 | 6 | 58.42 | 12 | 29.6 | 8 |
| 26 | 31.32 | 45 | 86.5 | 4 | 60.80 | 11 | 60.2 | 7 | 33.70 | 53 | 64.0 | 0 | 58.30 | 12 | 30.4 | 6 |
| Dez. 6 | 30.87 | 45 | 86.9 | 1 | 60.69 | 10 | 60.9 | 6 | 33.17 | 51 | 64.0 | 6 | 58.18 | 10 | 31.0 | 5 |
| 16 | 30.42 | 43 | 86.8 | 8 | 60.59 | 9 | 61.5 | 5 | 32.66 | 47 | 63.4 | 12 | 58.08 | 10 | 31.5 | 4 |
| 26 | 29.99 | 41 | 86.0 | 13 | 60.50 | 7 | 62.0 | 5 | 32.19 | 41 | 62.2 | 17 | 57.98 | 8 | 31.9 | 2 |
| 36 | 29.58 | | 84.7 | | 60.43 | | 62.5 | | 31.78 | | 60.5 | | 57.90 | | 32.1 | |
| Mittl. Ort | 30.51 | | 55.6 | | 58.33 | | 72.4 | | 28.81 | | 57.7 | | 55.70 | | 39.7 | |
| | 863) | | | | 864) | | | | 865) | | | | 866) | | | |

| 1911 | α Pisc. austr. $1^m.2$. | | | | o Andromed. $3^m.5$. | | | | β Pegasi. $2^m.4$. | | | | α Pegasi. $2^m.4$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. − | | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. + | |
| | $22^h\ 52^m$ | | $30°\ 5'$ | | $22^h\ 57^m$ | | $41°\ 50'$ | | $22^h\ 59^m$ | | $27°\ 35'$ | | $23^h\ 0^m$ | | $14°\ 43'$ | |
| Jan. 0 | $42^s.85$ | 9 | $55''.4$ | 4 | $47^s.67$ | 16 | $55''.9$ | 15 | $25^s.97$ | 11 | $60''.7$ | 13 | $18^s.22$ | 9 | $31''.6$ | 11 |
| 10 | 42.76 | 6 | 55.0 | 6 | 47.51 | 14 | 54.4 | 18 | 25.86 | 9 | 59.4 | 16 | 18.13 | 7 | 30.5 | 12 |
| 20 | 42.70 | 4 | 54.4 | 9 | 47.37 | 11 | 52.6 | 21 | 25.77 | 7 | 57.8 | 17 | 18.06 | 5 | 29.3 | 12 |
| 30 | 42.66 | 1 | 53.5 | 12 | 47.26 | 7 | 50.5 | 23 | 25.70 | 5 | 56.1 | 18 | 18.01 | 3 | 28.1 | 13 |
| Febr. 9 | 42.65 | 3 | 52.3 | 14 | 47.19 | 3 | 48.2 | 24 | 25.65 | 1 | 54.3 | 18 | 17.98 | 0 | 26.8 | 12 |
| 19 | 42.68 | 5 | 50.9 | 16 | 47.16 | 1 | 45.8 | 24 | 25.64 | 3 | 52.5 | 18 | 17.98 | 4 | 25.6 | 10 |
| März 1 | 42.73 | 11 | 49.3 | 20 | 47.17 | 7 | 43.4 | 24 | 25.67 | 7 | 50.7 | 17 | 18.02 | 8 | 24.6 | 9 |
| 11 | 42.84 | 13 | 47.3 | 21 | 47.24 | 12 | 41.0 | 20 | 25.74 | 11 | 49.0 | 13 | 18.10 | 10 | 23.7 | 6 |
| 21 | 42.97 | 17 | 45.2 | 21 | 47.36 | 17 | 39.0 | 17 | 25.85 | 16 | 47.7 | 10 | 18.20 | 15 | 23.1 | 3 |
| 31 | 43.14 | 21 | 43.1 | 23 | 47.53 | 22 | 37.3 | 13 | 26.01 | 19 | 46.7 | 6 | 18.35 | 18 | 22.8 | 0 |
| April 10 | 43.35 | 25 | 40.8 | 23 | 47.75 | 26 | 36.0 | 8 | 26.20 | 23 | 46.1 | 2 | 18.53 | 22 | 22.8 | 4 |
| 20 | 43.60 | 28 | 38.5 | 23 | 48.01 | 30 | 35.2 | 4 | 26.43 | 27 | 45.9 | 2 | 18.75 | 26 | 23.2 | 7 |
| 30 | 43.88 | 31 | 36.2 | 23 | 48.31 | 34 | 34.8 | 1 | 26.70 | 30 | 46.1 | 6 | 19.01 | 28 | 23.9 | 11 |
| Mai 10 | 44.19 | 34 | 33.9 | 21 | 48.65 | 36 | 34.9 | 7 | 27.00 | 32 | 46.7 | 11 | 19.29 | 30 | 25.0 | 14 |
| 20 | 44.53 | 35 | 31.8 | 21 | 49.01 | 38 | 35.6 | 11 | 27.32 | 34 | 47.8 | 14 | 19.59 | 32 | 26.4 | 17 |
| 30 | 44.88 | 36 | 29.7 | 19 | 49.39 | 39 | 36.7 | 16 | 27.66 | 34 | 49.2 | 18 | 19.91 | 32 | 28.1 | 19 |
| Juni 9 | 45.24 | 36 | 27.8 | 16 | 49.78 | 37 | 38.3 | 20 | 28.00 | 35 | 51.0 | 21 | 20.23 | 33 | 30.0 | 21 |
| 19 | 45.60 | 36 | 26.2 | 13 | 50.15 | 37 | 40.3 | 24 | 28.35 | 33 | 53.1 | 23 | 20.56 | 31 | 32.1 | 23 |
| 29 | 45.96 | 33 | 24.9 | 11 | 50.52 | 34 | 42.7 | 26 | 28.68 | 31 | 55.4 | 26 | 20.87 | 30 | 34.4 | 23 |
| Juli 9 | 46.29 | 31 | 23.8 | 7 | 50.86 | 31 | 45.3 | 29 | 28.99 | 28 | 58.0 | 26 | 21.17 | 27 | 36.7 | 24 |
| 19 | 46.60 | 28 | 23.1 | 3 | 51.17 | 27 | 48.2 | 31 | 29.27 | 25 | 60.6 | 27 | 21.44 | 25 | 39.1 | 23 |
| 29 | 46.88 | 24 | 22.8 | 0 | 51.44 | 22 | 51.3 | 31 | 29.52 | 21 | 63.3 | 28 | 21.69 | 21 | 41.4 | 22 |
| Aug. 8 | 47.12 | 19 | 22.8 | 3 | 51.66 | 17 | 54.4 | 32 | 29.73 | 17 | 66.1 | 26 | 21.90 | 16 | 43.6 | 21 |
| 18 | 47.31 | 14 | 23.1 | 7 | 51.83 | 13 | 57.6 | 31 | 29.90 | 12 | 68.7 | 26 | 22.06 | 13 | 45.7 | 19 |
| 28 | 47.45 | 9 | 23.8 | 8 | 51.96 | 7 | 60.7 | 30 | 30.02 | 8 | 71.3 | 24 | 22.19 | 8 | 47.6 | 18 |
| Sept. 7 | 47.54 | 5 | 24.6 | 11 | 52.03 | 2 | 63.7 | 29 | 30.10 | 4 | 73.7 | 22 | 22.27 | 5 | 49.4 | 15 |
| 17 | 47.59 | 0 | 25.7 | 13 | 52.05 | 2 | 66.6 | 27 | 30.14 | 1 | 75.9 | 20 | 22.32 | 0 | 50.9 | 13 |
| 27 | 47.59 | 4 | 27.0 | 14 | 52.03 | 6 | 69.3 | 24 | 30.13 | 4 | 77.9 | 18 | 22.32 | 3 | 52.2 | 10 |
| Okt. 7 | 47.55 | 8 | 28.4 | 14 | 51.97 | 10 | 71.7 | 21 | 30.09 | 7 | 79.7 | 14 | 22.29 | 5 | 53.2 | 8 |
| 17 | 47.47 | 10 | 29.8 | 13 | 51.87 | 13 | 73.8 | 17 | 30.02 | 9 | 81.1 | 12 | 22.24 | 8 | 54.0 | 5 |
| 27 | 47.37 | 12 | 31.1 | 12 | 51.74 | 16 | 75.5 | 14 | 29.93 | 12 | 82.3 | 8 | 22.16 | 10 | 54.5 | 3 |
| Nov. 6 | 47.25 | 14 | 32.3 | 11 | 51.58 | 17 | 76.9 | 10 | 29.81 | 13 | 83.1 | 5 | 22.06 | 11 | 54.8 | 1 |
| 16 | 47.11 | 14 | 33.4 | 8 | 51.41 | 18 | 77.9 | 5 | 29.68 | 13 | 83.6 | 1 | 21.95 | 12 | 54.9 | 2 |
| 26 | 46.97 | 14 | 34.2 | 6 | 51.23 | 19 | 78.4 | 0 | 29.55 | 14 | 83.7 | 2 | 21.83 | 11 | 54.7 | 5 |
| Dez. 6 | 46.83 | 12 | 34.8 | 4 | 51.04 | 19 | 78.4 | 4 | 29.41 | 14 | 83.5 | 6 | 21.72 | 11 | 54.2 | 6 |
| 16 | 46.71 | 12 | 35.2 | 0 | 50.85 | 19 | 78.0 | 9 | 29.27 | 13 | 82.9 | 9 | 21.61 | 11 | 53.6 | 8 |
| 26 | 46.59 | 10 | 35.2 | 2 | 50.66 | 16 | 77.1 | 13 | 29.14 | 11 | 82.0 | 11 | 21.50 | 9 | 52.8 | 10 |
| 36 | 46.49 | | 35.0 | | 50.50 | | 75.8 | | 29.03 | | 80.9 | | 21.41 | | 51.8 | |
| Mittl. Ort | 44.09 | | 38.8 | | 49.41 | | 50.6 | | 27.47 | | 59.3 | | 19.59 | | 34.2 | |
| | 867) | | | | 869) | | | | 870) | | | | 871) | | | |

| 1911 | ϑ Gruis. $4^m.2$. AR. | | Dekl. − | | $c^2$ Aquarii. $3^m.7$. AR. | | Dekl. − | | π Cephei. $4^m.5$. AR. | | Dekl. + | | Br. 3077. $5^m.8$. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $23^h\ 1^m$ | | 43° 59′ | | $23^h\ 4^m$ | | 21° 39′ | | $23^h\ 4^m$ | | 74° 54′ | | $23^h\ 8^m$ | | 56° 40′ | |
| | s | | ″ | | s | | ″ | | s | | ″ | | s | | ″ | |
| Jan. 0 | 50.94 | 14 | 84.9 | 8 | 41.00 | 9 | 34.6 | 0 | 60.00 | 71 | 34.3 | 12 | 57.45 | 27 | 45.6 | 13 |
| 10 | 50.80 | 10 | 84.1 | 13 | 40.91 | 6 | 34.6 | 2 | 59.29 | 65 | 33.1 | 17 | 57.18 | 23 | 44.3 | 18 |
| 20 | 50.70 | 7 | 82.8 | 16 | 40.85 | 4 | 34.4 | 5 | 58.64 | 55 | 31.4 | 23 | 56.95 | 19 | 42.5 | 23 |
| 30 | 50.63 | 3 | 81.2 | 18 | 40.81 | 2 | 33.9 | 7 | 58.09 | 43 | 29.1 | 27 | 56.76 | 15 | 40.2 | 25 |
| Febr. 9 | 50.60 | 0 | 79.4 | 22 | 40.79 | — 1 | 33.2 | 9 | 57.66 | 30 | 26.4 | 29 | 56.61 | 10 | 37.7 | 27 |
| 19 | 50.60 | 5 | 77.2 | 24 | 40.80 | 4 | 32.3 | 11 | 57.36 | 16 | 23.5 | 31 | 56.51 | 3 | 35.0 | 28 |
| März 1 | 50.65 | 10 | 74.8 | 29 | 40.84 | 8 | 31.2 | 15 | 57.20 | — 2 | 20.4 | 34 | 56.48 | — 5 | 32.2 | 30 |
| 11 | 50.75 | 13 | 71.9 | 27 | 40.92 | 12 | 29.7 | 16 | 57.22 | 17 | 17.0 | 30 | 56.53 | 12 | 29.2 | 26 |
| 21 | 50.88 | 19 | 69.2 | 28 | 41.04 | 15 | 28.1 | 18 | 57.39 | 33 | 14.0 | 28 | 56.65 | 19 | 26.6 | 23 |
| 31 | 51.07 | 23 | 66.4 | 28 | 41.19 | 19 | 26.3 | 19 | 57.72 | 47 | 11.2 | 24 | 56.84 | 26 | 24.3 | 19 |
| April 10 | 51.30 | 27 | 63.6 | 28 | 41.38 | 22 | 24.4 | 20 | 58.19 | 60 | 8.8 | 20 | 57.10 | 33 | 22.4 | 15 |
| 20 | 51.57 | 31 | 60.8 | 27 | 41.60 | 26 | 22.4 | 22 | 58.79 | 70 | 6.8 | 15 | 57.43 | 38 | 20.9 | 10 |
| 30 | 51.88 | 34 | 58.1 | 26 | 41.86 | 29 | 20.2 | 22 | 59.49 | 79 | 5.3 | 9 | 57.81 | 42 | 19.9 | 4 |
| Mai 10 | 52.22 | 38 | 55.5 | 23 | 42.15 | 31 | 18.0 | 21 | 60.28 | 84 | 4.4 | 4 | 58.23 | 46 | 19.5 | — 1 |
| 20 | 52.60 | 40 | 53.2 | 21 | 42.46 | 33 | 15.9 | 21 | 61.12 | 88 | 4.0 | — 3 | 58.69 | 48 | 19.6 | 7 |
| 30 | 53.00 | 41 | 51.1 | 18 | 42.79 | 34 | 13.8 | 20 | 62.00 | 88 | 4.3 | 8 | 59.17 | 49 | 20.3 | 12 |
| Juni 9 | 53.41 | 42 | 49.3 | 14 | 43.13 | 34 | 11.8 | 19 | 62.88 | 87 | 5.1 | 14 | 59.66 | 48 | 21.5 | 17 |
| 19 | 53.83 | 40 | 47.9 | 11 | 43.47 | 34 | 9.9 | 16 | 63.75 | 82 | 6.5 | 19 | 60.14 | 46 | 23.2 | 21 |
| 29 | 54.23 | 39 | 46.8 | 6 | 43.81 | 32 | 8.3 | 14 | 64.57 | 75 | 8.4 | 24 | 60.60 | 44 | 25.3 | 26 |
| Juli 9 | 54.62 | 36 | 46.2 | 2 | 44.13 | 30 | 6.9 | 11 | 65.32 | 68 | 10.8 | 28 | 61.04 | 39 | 27.9 | 29 |
| 19 | 54.98 | 33 | 46.0 | — 2 | 44.43 | 26 | 5.8 | 9 | 66.00 | 57 | 13.6 | 32 | 61.43 | 34 | 30.8 | 32 |
| 29 | 55.31 | 28 | 46.2 | 6 | 44.69 | 24 | 4.9 | 4 | 66.57 | 46 | 16.8 | 33 | 61.77 | 29 | 34.0 | 33 |
| Aug. 8 | 55.59 | 23 | 46.8 | 10 | 44.93 | 19 | 4.5 | 2 | 67.03 | 34 | 20.1 | 37 | 62.06 | 23 | 37.3 | 35 |
| 18 | 55.82 | 17 | 47.8 | 14 | 45.12 | 14 | 4.3 | — 1 | 67.37 | 21 | 23.8 | 38 | 62.29 | 16 | 40.8 | 36 |
| 28 | 55.99 | 12 | 49.2 | 16 | 45.26 | 10 | 4.4 | 4 | 67.58 | 9 | 27.6 | 38 | 62.45 | 10 | 44.4 | 35 |
| Sept. 7 | 56.11 | 5 | 50.8 | 18 | 45.36 | 6 | 4.8 | 6 | 67.67 | — 4 | 31.4 | 38 | 62.55 | 3 | 47.9 | 34 |
| 17 | 56.16 | 0 | 52.6 | 19 | 45.42 | 1 | 5.4 | 8 | 67.63 | 17 | 35.2 | 37 | 62.58 | — 3 | 51.3 | 33 |
| 27 | 56.16 | 5 | 54.5 | 20 | 45.43 | — 2 | 6.2 | 10 | 67.46 | 29 | 38.9 | 35 | 62.55 | 9 | 54.6 | 31 |
| Okt. 7 | 56.11 | 10 | 56.5 | 19 | 45.41 | 5 | 7.2 | 10 | 67.17 | 40 | 42.4 | 32 | 62.46 | 13 | 57.7 | 27 |
| 17 | 56.01 | 13 | 58.4 | 18 | 45.36 | 9 | 8.2 | 11 | 66.77 | 49 | 45.6 | 29 | 62.33 | 18 | 60.4 | 24 |
| 27 | 55.88 | 16 | 60.2 | 16 | 45.27 | 10 | 9.3 | 10 | 66.28 | 59 | 48.5 | 26 | 62.15 | 22 | 62.8 | 21 |
| Nov. 6 | 55.72 | 18 | 61.8 | 13 | 45.17 | 11 | 10.3 | 10 | 65.69 | 66 | 51.1 | 20 | 61.93 | 25 | 64.9 | 15 |
| 16 | 55.54 | 18 | 63.1 | 9 | 45.06 | 13 | 11.3 | 9 | 65.03 | 71 | 53.1 | 15 | 61.68 | 27 | 66.4 | 11 |
| 26 | 55.36 | 19 | 64.0 | 6 | 44.93 | 12 | 12.2 | 7 | 64.32 | 75 | 54.6 | 9 | 61.41 | 29 | 67.5 | 5 |
| Dez. 6 | 55.17 | 18 | 64.6 | 2 | 44.81 | 11 | 12.9 | 5 | 63.57 | 77 | 55.5 | 3 | 61.12 | 29 | 68.0 | 0 |
| 16 | 54.99 | 16 | 64.8 | — 3 | 44.70 | 11 | 13.4 | 3 | 62.80 | 77 | 55.8 | — 3 | 60.83 | 29 | 68.0 | 6 |
| 26 | 54.83 | 15 | 64.5 | 6 | 44.59 | 9 | 13.7 | 1 | 62.03 | 73 | 55.5 | 9 | 60.54 | 27 | 67.4 | 11 |
| 36 | 54.68 | | 63.9 | | 44.50 | | 13.8 | | 61.30 | | 54.6 | | 60.27 | | 66.3 | |
| Mittl. Ort | 52.12 | | 64.8 | | 42.17 | | 20.4 | | 63.82 | | 22.5 | | 59.55 | | 36.4 | |
| | 872) | | | | 873) | | | | 874) | | | | 875) | | | |

| 1911 | γ Tucanae. $3^m.9$. AR. | | Dekl. − | | γ Sculptoris. $4^m.4$. AR. | | Dekl. − | | τ Pegasi. $4^m.5$. AR. | | Dekl. + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $23^h 12^m$ | | $58° 43'$ | | $23^h 13^m$ | | $33° 0'$ | | $23^h 16^m$ | | $23° 14'$ | |
| Jan. 0 | 13.30 | 23 | 48.6 | 13 | 60.16 | 11 | 78.7 | 3 | 12.44 | 11 | 71.4 | 12 |
| 10 | 13.07 | 19 | 47.3 | 18 | 60.05 | 9 | 78.4 | 7 | 12.33 | 9 | 70.2 | 14 |
| 20 | 12.88 | 15 | 45.5 | 22 | 59.96 | 6 | 77.7 | 10 | 12.24 | 8 | 68.8 | 14 |
| 30 | 12.73 | 9 | 43.3 | 25 | 59.90 | 4 | 76.7 | 13 | 12.16 | 5 | 67.4 | 16 |
| Febr. 9 | 12.64 | 4 | 40.8 | 28 | 59.86 | 0 | 75.4 | 16 | 12.11 | 2 | 65.8 | 16 |
| 19 | 12.60 | 1 | 38.0 | 31 | 59.86 | 3 | 73.8 | 18 | 12.09 | 1 | 64.2 | 15 |
| März 1 | 12.61 | 9 | 34.9 | 36 | 59.89 | 7 | 72.0 | 22 | 12.10 | 6 | 62.7 | 14 |
| 11 | 12.70 | 15 | 31.3 | 33 | 59.96 | 11 | 69.8 | 22 | 12.16 | 9 | 61.3 | 10 |
| 21 | 12.85 | 21 | 28.0 | 34 | 60.07 | 15 | 67.6 | 24 | 12.25 | 14 | 60.3 | 8 |
| 31 | 13.06 | 27 | 24.6 | 33 | 60.22 | 19 | 65.2 | 25 | 12.39 | 17 | 59.5 | 5 |
| April 10 | 13.33 | 33 | 21.3 | 32 | 60.41 | 23 | 62.7 | 25 | 12.56 | 21 | 59.0 | 1 |
| 20 | 13.66 | 39 | 18.1 | 30 | 60.64 | 27 | 60.2 | 25 | 12.77 | 25 | 58.9 | 3 |
| 30 | 14.05 | 43 | 15.1 | 28 | 60.91 | 31 | 57.7 | 25 | 13.02 | 28 | 59.2 | 7 |
| Mai 10 | 14.48 | 47 | 12.3 | 24 | 61.22 | 32 | 55.2 | 24 | 13.30 | 31 | 59.9 | 11 |
| 20 | 14.95 | 50 | 9.9 | 21 | 61.54 | 35 | 52.8 | 22 | 13.61 | 33 | 61.0 | 15 |
| 30 | 15.45 | 53 | 7.8 | 17 | 61.89 | 37 | 50.6 | 20 | 13.94 | 33 | 62.5 | 17 |
| Juni 9 | 15.98 | 54 | 6.1 | 12 | 62.26 | 37 | 48.6 | 17 | 14.27 | 34 | 64.2 | 21 |
| 19 | 16.52 | 52 | 4.9 | 8 | 62.63 | 36 | 46.9 | 15 | 14.61 | 33 | 66.3 | 22 |
| 29 | 17.04 | 51 | 4.1 | 2 | 62.99 | 36 | 45.4 | 11 | 14.94 | 31 | 68.5 | 25 |
| Juli 9 | 17.55 | 47 | 3.9 | 2 | 63.35 | 33 | 44.3 | 7 | 15.25 | 29 | 71.0 | 25 |
| 19 | 18.02 | 43 | 4.1 | 7 | 63.68 | 29 | 43.6 | 3 | 15.54 | 26 | 73.5 | 25 |
| 29 | 18.45 | 37 | 4.8 | 12 | 63.97 | 26 | 43.3 | 0 | 15.80 | 22 | 76.0 | 26 |
| Aug. 8 | 18.82 | 31 | 6.0 | 16 | 64.23 | 22 | 43.3 | 4 | 16.02 | 19 | 78.6 | 24 |
| 18 | 19.13 | 23 | 7.6 | 20 | 64.45 | 17 | 43.7 | 7 | 16.21 | 14 | 81.0 | 24 |
| 28 | 19.36 | 15 | 9.6 | 22 | 64.62 | 11 | 44.4 | 10 | 16.35 | 10 | 83.4 | 22 |
| Sept. 7 | 19.51 | 8 | 11.8 | 24 | 64.73 | 7 | 45.4 | 13 | 16.45 | 6 | 85.6 | 20 |
| 17 | 19.59 | 0 | 14.2 | 25 | 64.80 | 2 | 46.7 | 14 | 16.51 | 1 | 87.6 | 18 |
| 27 | 19.59 | 8 | 16.7 | 25 | 64.82 | 2 | 48.1 | 15 | 16.52 | 1 | 89.4 | 16 |
| Okt. 7 | 19.51 | 14 | 19.2 | 24 | 64.80 | 6 | 49.6 | 16 | 16.51 | 5 | 91.0 | 12 |
| 17 | 19.37 | 20 | 21.6 | 21 | 64.74 | 9 | 51.2 | 16 | 16.46 | 7 | 92.2 | 10 |
| 27 | 19.17 | 25 | 23.7 | 18 | 64.65 | 12 | 52.8 | 14 | 16.39 | 10 | 93.2 | 7 |
| Nov. 6 | 18.92 | 28 | 25.5 | 15 | 64.53 | 13 | 54.2 | 12 | 16.29 | 11 | 93.9 | 4 |
| 16 | 18.64 | 30 | 27.0 | 10 | 64.40 | 15 | 55.4 | 10 | 16.18 | 12 | 94.3 | 1 |
| 26 | 18.34 | 30 | 28.0 | 5 | 64.25 | 14 | 56.4 | 8 | 16.06 | 13 | 94.4 | 2 |
| Dez. 6 | 18.04 | 29 | 28.5 | 0 | 64.11 | 14 | 57.2 | 5 | 15.93 | 12 | 94.2 | 5 |
| 16 | 17.75 | 28 | 28.5 | 5 | 63.97 | 13 | 57.7 | 1 | 15.81 | 12 | 93.7 | 7 |
| 26 | 17.47 | 25 | 28.0 | 11 | 63.84 | 12 | 57.8 | 2 | 15.69 | 11 | 93.0 | 10 |
| 36 | 17.22 | | 26.9 | | 63.72 | | 57.6 | | 15.58 | | 92.0 | |
| Mittl. Ort | 14.43 | | 25.7 | | 61.24 | | 61.3 | | 13.80 | | 70.7 | |
| | 877) | | | | 879) | | | | 880) | | | |

| 1911 | 4 Cassiopejae. $5^m.5$. | | | | κ Piscium. $5^m.1$. | | | | 70 Pegasi. $4^m.7$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. + | |
| | $23^h\ 20^m$ | | $61°\ 47'$ | | $23^h\ 22^m$ | | $0°\ 45'$ | | $23^h\ 24^m$ | | $12°\ 15'$ | |
| | s | | " | | s | | " | | s | | " | |
| Jan. 0 | 50.50 | 35 | 49.3 | 12 | 21.05 | 9 | 59.0 | 7 | 37.93 | 10 | 67.0 | 9 |
| 10 | 50.15 | 31 | 48.1 | 17 | 20.96 | 8 | 58.3 | 7 | 37.83 | 8 | 66.1 | 10 |
| 20 | 49.84 | 27 | 46.4 | 21 | 20.88 | 5 | 57.6 | 6 | 37.75 | 7 | 65.1 | 11 |
| 30 | 49.57 | 21 | 44.3 | 25 | 20.83 | 3 | 57.0 | 5 | 37.68 | 4 | 64.0 | 11 |
| Febr. 9 | 49.36 | 16 | 41.8 | 27 | 20.80 | 1 | 56.5 | 4 | 37.64 | 2 | 62.9 | 9 |
| 19 | 49.20 | 7 | 39.1 | 29 | 20.79 | 1 | 56.1 | 2 | 37.62 | 1 | 62.0 | 9 |
| März 1 | 49.13 | 1 | 36.2 | 32 | 20.80 | 6 | 55.9 | 0 | 37.63 | 5 | 61.1 | 7 |
| 11 | [10] 49.14 | 9 | 33.0 | 27 | [10] 20.86 | 9 | 55.9 | 3 | [11] 37.68 | 9 | 60.4 | 5 |
| 21 | 49.23 | 19 | 30.3 | 25 | 20.95 | 12 | 56.2 | 4 | 37.77 | 12 | 59.9 | 2 |
| 31 | 49.42 | 26 | 27.8 | 22 | 21.07 | 16 | 56.6 | 8 | 37.89 | 16 | 59.7 | 2 |
| April 10 | 49.68 | 34 | 25.6 | 17 | 21.23 | 20 | 57.4 | 11 | 38.05 | 20 | 59.9 | 4 |
| 20 | 50.02 | 40 | 23.9 | 13 | 21.43 | 24 | 58.5 | 13 | 38.25 | 23 | 60.3 | 8 |
| 30 | 50.42 | 46 | 22.6 | 7 | 21.67 | 26 | 59.8 | 15 | 38.48 | 27 | 61.1 | 11 |
| Mai 10 | 50.88 | 50 | 21.9 | 2 | 21.93 | 29 | 61.3 | 17 | 38.75 | 29 | 62.2 | 14 |
| 20 | 51.38 | 53 | 21.7 | 4 | 22.22 | 30 | 63.0 | 19 | 39.04 | 31 | 63.6 | 17 |
| 30 | 51.91 | 54 | 22.1 | 9 | 22.52 | 32 | 64.9 | 20 | 39.35 | 32 | 65.3 | 19 |
| Juni 9 | 52.45 | 53 | 23.0 | 15 | 22.84 | 33 | 66.9 | 21 | 39.67 | 33 | 67.2 | 20 |
| 19 | 52.98 | 52 | 24.5 | 20 | 23.17 | 31 | 69.0 | 21 | 40.00 | 32 | 69.2 | 22 |
| 29 | 53.50 | 48 | 26.5 | 24 | 23.48 | 31 | 71.1 | 21 | 40.32 | 31 | 71.4 | 22 |
| Juli 9 | 53.98 | 45 | 28.9 | 28 | 23.79 | 29 | 73.2 | 19 | 40.63 | 28 | 73.6 | 23 |
| 19 | 54.43 | 39 | 31.7 | 31 | 24.08 | 25 | 75.1 | 18 | 40.91 | 26 | 75.9 | 22 |
| 29 | 54.82 | 33 | 34.8 | 33 | 24.33 | 23 | 76.9 | 16 | 41.17 | 23 | 78.1 | 22 |
| Aug. 8 | 55.15 | 26 | 38.1 | 35 | 24.56 | 19 | 78.5 | 15 | 41.40 | 19 | 80.3 | 20 |
| 18 | 55.41 | 19 | 41.6 | 36 | 24.75 | 15 | 80.0 | 12 | 41.59 | 15 | 82.3 | 18 |
| 28 | 55.60 | 12 | 45.2 | 36 | 24.90 | 11 | 81.2 | 9 | 41.74 | 11 | 84.1 | 16 |
| Sept. 7 | 55.72 | 4 | 48.8 | 36 | 25.01 | 7 | 82.1 | 7 | 41.85 | 7 | 85.7 | 14 |
| 17 | 55.76 | 2 | 52.4 | 34 | 25.08 | 3 | 82.8 | 5 | 41.92 | 3 | 87.1 | 12 |
| 27 | 55.74 | 9 | 55.8 | 33 | 25.11 | 0 | 83.3 | 3 | 41.95 | 0 | 88.3 | 9 |
| Okt. 7 | 55.65 | 15 | 59.1 | 30 | 25.11 | 4 | 83.6 | 1 | 41.95 | 3 | 89.2 | 7 |
| 17 | 55.50 | 21 | 62.1 | 27 | 25.07 | 5 | 83.7 | 2 | 41.92 | 6 | 89.9 | 5 |
| 27 | 55.29 | 25 | 64.8 | 23 | 25.02 | 8 | 83.5 | 2 | 41.86 | 8 | 90.4 | 2 |
| Nov. 6 | 55.04 | 29 | 67.1 | 18 | 24.94 | 9 | 83.3 | 4 | 41.78 | 9 | 90.6 | 0 |
| 16 | 54.75 | 33 | 68.9 | 14 | 24.85 | 10 | 82.9 | 5 | 41.69 | 11 | 90.6 | 2 |
| 26 | 54.42 | 34 | 70.3 | 7 | 24.75 | 10 | 82.4 | 6 | 41.58 | 10 | 90.4 | 3 |
| Dez. 6 | 54.08 | 36 | 71.0 | 3 | 24.65 | 10 | 81.8 | 6 | 41.48 | 11 | 90.1 | 6 |
| 16 | 53.72 | 36 | 71.3 | 4 | 24.55 | 10 | 81.2 | 7 | 41.37 | 11 | 89.5 | 7 |
| 26 | 53.36 | 35 | 70.9 | 9 | 24.45 | 9 | 80.5 | 7 | 41.26 | 9 | 88.8 | 8 |
| 36 | 53.01 | | 70.0 | | 24.36 | | 79.8 | | 41.17 | | 88.0 | |
| Mittl. Ort | 52.74 | | 38.5 | | 22.20 | | 65.6 | | 39.15 | | 69.7 | |
| | 882) | | | | 884) | | | | 885) | | | |

| 1911 | ι Andromedae. $4^m.1$. | | | | ι Piscium. $4^m.1$. | | | | γ Cephei. $3^m.3$. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. + | | AR. | | Dekl. + | | AR. | | Dekl. + | |
| | $23^h\ 33^m$ | | $42°\ 46'$ | | $23^h\ 35^m$ | | $5°\ 8'$ | | $23^h\ 35^m$ | | $77°\ 7'$ | |
| Jan. 0 | 44.52 s | 18 | 37.8 ″ | 12 | 21.20 s | 9 | 32.6 ″ | 8 | 37.35 s | 89 | 81.7 ″ | 8 |
| 10 | 44.34 | 17 | 36.6 | 15 | 21.11 | 8 | 31.8 | 8 | 36.46 | 82 | 80.9 | 13 |
| 20 | 44.17 | 14 | 35.1 | 18 | 21.03 | 7 | 31.0 | 7 | 35.64 | 74 | 79.6 | 19 |
| 30 | 44.03 | 11 | 33.3 | 21 | 20.96 | 4 | 30.3 | 7 | 34.90 | 62 | 77.7 | 24 |
| Febr. 9 | 43.92 | 8 | 31.2 | 22 | 20.92 | 2 | 29.6 | 6 | 34.28 | 47 | 75.3 | 27 |
| 19 | 43.84 | 3 | 29.0 | 23 | 20.90 | 0 | 29.0 | 5 | 33.81 | 31 | 72.6 | 29 |
| März 1 | 43.81 | 1 | 26.7 | 22 | 20.90 | 4 | 28.5 | 3 | 33.50 | 14 | 69.7 | 31 |
| 11 | 43.82 | 8 | 24.5 | 23 | 20.94 | 8 | 28.2 | 0 | 33.36 | 7 | 66.6 | 33 |
| 21 | [14] 43.90 | 12 | 22.2 | 18 | [14] 21.02 | 11 | 28.2 | 3 | [11] 33.43 | 25 | 63.3 | 29 |
| 31 | 44.02 | 18 | 20.4 | 15 | 21.13 | 15 | 28.5 | 5 | 33.68 | 43 | 60.4 | 26 |
| April 10 | 44.20 | 23 | 18.9 | 11 | 21.28 | 18 | 29.0 | 8 | 34.11 | 59 | 57.8 | 23 |
| 20 | 44.43 | 29 | 17.8 | 6 | 21.46 | 23 | 29.8 | 10 | 34.70 | 73 | 55.5 | 18 |
| 30 | 44.72 | 31 | 17.2 | 2 | 21.69 | 26 | 30.8 | 14 | 35.43 | 85 | 53.7 | 13 |
| Mai 10 | 45.03 | 36 | 17.0 | 3 | 21.95 | 28 | 32.2 | 16 | 36.28 | 94 | 52.4 | 8 |
| 20 | 45.39 | 38 | 17.3 | 8 | 22.23 | 30 | 33.8 | 18 | 37.22 | 99 | 51.6 | 2 |
| 30 | 45.77 | 38 | 18.1 | 13 | 22.53 | 32 | 35.6 | 19 | 38.21 | 103 | 51.4 | 4 |
| Juni 9 | 46.15 | 39 | 19.4 | 17 | 22.85 | 32 | 37.5 | 21 | 39.24 | 102 | 51.8 | 10 |
| 19 | 46.54 | 39 | 21.1 | 20 | 23.17 | 33 | 39.6 | 21 | 40.26 | 100 | 52.8 | 15 |
| 29 | 46.93 | 36 | 23.1 | 24 | 23.50 | 31 | 41.7 | 21 | 41.26 | 93 | 54.3 | 20 |
| Juli 9 | 47.29 | 35 | 25.5 | 27 | 23.81 | 29 | 43.8 | 21 | 42.19 | 86 | 56.3 | 25 |
| 19 | 47.64 | 31 | 28.2 | 29 | 24.10 | 27 | 45.9 | 19 | 43.05 | 76 | 58.8 | 29 |
| 29 | 47.95 | 26 | 31.1 | 30 | 24.37 | 23 | 47.8 | 19 | 43.81 | 65 | 61.7 | 32 |
| Aug. 8 | 48.21 | 22 | 34.1 | 31 | 24.60 | 20 | 49.7 | 16 | 44.46 | 52 | 64.9 | 34 |
| 18 | 48.43 | 18 | 37.2 | 31 | 24.80 | 16 | 51.3 | 14 | 44.98 | 38 | 68.3 | 37 |
| 28 | 48.61 | 12 | 40.3 | 31 | 24.96 | 12 | 52.7 | 12 | 45.36 | 24 | 72.0 | 38 |
| Sept. 7 | 48.73 | 8 | 43.4 | 29 | 25.08 | 9 | 53.9 | 10 | 45.60 | 9 | 75.8 | 38 |
| 17 | 48.81 | 3 | 46.3 | 28 | 25.17 | 4 | 54.9 | 8 | 45.69 | 5 | 79.6 | 38 |
| 27 | 48.84 | 2 | 49.1 | 26 | 25.21 | 1 | 55.7 | 5 | 45.64 | 20 | 83.4 | 37 |
| Okt. 7 | 48.82 | 5 | 51.7 | 23 | 25.22 | 2 | 56.2 | 3 | 45.44 | 34 | 87.1 | 35 |
| 17 | 48.77 | 9 | 54.0 | 20 | 25.20 | 5 | 56.5 | 1 | 45.10 | 47 | 90.6 | 32 |
| 27 | 48.68 | 12 | 56.0 | 17 | 25.15 | 6 | 56.6 | 1 | 44.63 | 58 | 93.8 | 29 |
| Nov. 6 | 48.56 | 15 | 57.7 | 12 | 25.09 | 9 | 56.5 | 2 | 44.05 | 68 | 96.7 | 25 |
| 16 | 48.41 | 16 | 58.9 | 9 | 25.00 | 9 | 56.3 | 4 | 43.37 | 77 | 99.2 | 19 |
| 26 | 48.25 | 18 | 59.8 | 4 | 24.91 | 10 | 55.9 | 5 | 42.60 | 85 | 101.1 | 14 |
| Dez. 6 | 48.07 | 18 | 60.2 | 0 | 24.81 | 10 | 55.4 | 6 | 41.75 | 88 | 102.5 | 8 |
| 16 | 47.89 | 19 | 60.2 | 5 | 24.71 | 10 | 54.8 | 7 | 40.87 | 91 | 103.3 | 2 |
| 26 | 47.70 | 18 | 59.7 | 9 | 24.61 | 10 | 54.1 | 7 | 39.96 | 89 | 103.5 | 4 |
| 36 | 47.52 | | 58.8 | | 24.51 | | 53.4 | | 39.07 | | 103.1 | |
| Mittl. Ort | 46.05 | | 30.7 | | 22.31 | | 37.5 | | 41.16 | | 68.1 | |
| | 891) | | | | 892) | | | | 893) | | | |

| 1911 | ω² Aquarii. 4m.5. | | | | 41 H. Cephei. 5m.2. | | | | Lac. δ Sculptoris. 4m.4. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AR. | | Dekl. − | | AR. | | Dekl. + | | AR. | | Dekl. − | |
| | 23h 38m | | 15° 1′ | | 23h 43m | | 67° 18′ | | 23h 44m | | 28° 37′ | |
| Jan. 0 | 5.50 | 9 | 85.2 | 3 | 36.47 | 46 | 56.8 | 7 | 16.64 | 12 | 37.0 | 1 |
| 10 | 5.41 | 9 | 85.5 | 1 | 36.01 | 43 | 56.1 | 14 | 16.52 | 10 | 36.9 | 3 |
| 20 | 5.32 | 6 | 85.6 | 1 | 35.58 | 39 | 54.7 | 19 | 16.42 | 9 | 36.6 | 7 |
| 30 | 5.26 | 5 | 85.5 | 3 | 35.19 | 33 | 52.8 | 23 | 16.33 | 6 | 35.9 | 10 |
| Febr. 9 | 5.21 | 2 | 85.2 | 5 | 34.86 | 26 | 50.5 | 26 | 16.27 | 3 | 34.9 | 13 |
| 19 | 5.19 | 0 | 84.7 | 8 | 34.60 | 16 | 47.9 | 29 | 16.24 | 0 | 33.6 | 15 |
| März 1 | 5.19 | 4 | 83.9 | 10 | 34.44 | 7 | 45.0 | 29 | 16.24 | 3 | 32.1 | 18 |
| 11 | 5.23 | 8 | 82.9 | 13 | 34.37 | 5 | 42.1 | 32 | 16.27 | 7 | 30.3 | 22 |
| 21 | 15 5.31 | 11 | 81.6 | 14 | 16 34.42 | 15 | 38.9 | 27 | 16 16.34 | 11 | 28.1 | 22 |
| 31 | 5.42 | 15 | 80.2 | 17 | 34.57 | 27 | 36.2 | 25 | 16.45 | 15 | 25.9 | 23 |
| April 10 | 5.57 | 19 | 78.5 | 18 | 34.84 | 35 | 33.7 | 21 | 16.60 | 19 | 23.6 | 25 |
| 20 | 5.76 | 22 | 76.7 | 20 | 35.19 | 45 | 31.6 | 16 | 16.79 | 23 | 21.1 | 25 |
| 30 | 5.98 | 26 | 74.7 | 21 | 35.64 | 51 | 30.0 | 11 | 17.02 | 27 | 18.6 | 26 |
| Mai 10 | 6.24 | 28 | 72.6 | 22 | 36.15 | 58 | 28.9 | 6 | 17.29 | 29 | 16.0 | 24 |
| 20 | 6.52 | 31 | 70.4 | 22 | 36.73 | 62 | 28.3 | 0 | 17.58 | 33 | 13.6 | 24 |
| 30 | 6.83 | 33 | 68.2 | 21 | 37.35 | 63 | 28.3 | 5 | 17.91 | 35 | 11.2 | 23 |
| Juni 9 | 7.16 | 33 | 66.1 | 21 | 37.98 | 65 | 28.8 | 11 | 18.26 | 35 | 8.9 | 20 |
| 19 | 7.49 | 33 | 64.0 | 19 | 38.63 | 63 | 29.9 | 16 | 18.61 | 36 | 6.9 | 17 |
| 29 | 7.82 | 32 | 62.1 | 17 | 39.26 | 60 | 31.5 | 21 | 18.97 | 34 | 5.2 | 15 |
| Juli 9 | 8.14 | 31 | 60.4 | 15 | 39.86 | 56 | 33.6 | 25 | 19.31 | 33 | 3.7 | 11 |
| 19 | 8.45 | 28 | 58.9 | 13 | 40.42 | 50 | 36.1 | 29 | 19.64 | 31 | 2.6 | 7 |
| 29 | 8.73 | 24 | 57.6 | 10 | 40.92 | 43 | 39.0 | 32 | 19.95 | 27 | 1.9 | 4 |
| Aug. 8 | 8.97 | 21 | 56.6 | 6 | 41.35 | 36 | 42.2 | 34 | 20.22 | 23 | 1.5 | 0 |
| 18 | 9.18 | 18 | 56.0 | 3 | 41.71 | 28 | 45.6 | 36 | 20.45 | 19 | 1.5 | 4 |
| 28 | 9.36 | 13 | 55.7 | 1 | 41.99 | 19 | 49.2 | 37 | 20.64 | 15 | 1.9 | 7 |
| Sept. 7 | 9.49 | 9 | 55.6 | 2 | 42.18 | 11 | 52.9 | 37 | 20.79 | 10 | 2.6 | 10 |
| 17 | 9.58 | 4 | 55.8 | 5 | 42.29 | 2 | 56.6 | 36 | 20.89 | 6 | 3.6 | 12 |
| 27 | 9.62 | 2 | 56.3 | 6 | 42.31 | 6 | 60.2 | 35 | 20.95 | 1 | 4.8 | 14 |
| Okt. 7 | 9.64 | 2 | 56.9 | 8 | 42.25 | 14 | 63.7 | 33 | 20.96 | 2 | 6.2 | 15 |
| 17 | 9.62 | 5 | 57.7 | 9 | 42.11 | 22 | 67.0 | 30 | 20.94 | 6 | 7.7 | 15 |
| 27 | 9.57 | 8 | 58.6 | 9 | 41.89 | 28 | 70.0 | 27 | 20.88 | 8 | 9.2 | 15 |
| Nov. 6 | 9.49 | 9 | 59.5 | 10 | 41.61 | 34 | 72.7 | 23 | 20.80 | 11 | 10.7 | 13 |
| 16 | 9.40 | 9 | 60.5 | 9 | 41.27 | 38 | 75.0 | 18 | 20.69 | 12 | 12.0 | 12 |
| 26 | 9.31 | 11 | 61.4 | 8 | 40.89 | 43 | 76.8 | 12 | 20.57 | 13 | 13.2 | 9 |
| Dez. 6 | 9.20 | 11 | 62.2 | 7 | 40.46 | 46 | 78.0 | 7 | 20.44 | 13 | 14.1 | 7 |
| 16 | 9.09 | 10 | 62.9 | 5 | 40.00 | 46 | 78.7 | 0 | 20.31 | 13 | 14.8 | 4 |
| 26 | 8.99 | 10 | 63.4 | 4 | 39.54 | 46 | 78.7 | 5 | 20.18 | 12 | 15.2 | 1 |
| 36 | 8.89 | | 63.8 | | 39.08 | | 78.2 | | 20.06 | | 15.3 | |
| Mittl. Ort | 6.48 | | 73.5 | | 38.84 | | 44.2 | | 17.50 | | 21.1 | |
| | 894) | | | | 895) | | | | 896) | | | |

| 1911 | φ Pegasi. $5^m.4$. AR. | | Dekl. + | | ω Piscium. $3^m.9$. AR. | | Dekl. + | | ε Tucanae. $4^m.5$. AR. | | Dekl. — | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $23^h\ 47^m$ | | 18° 37′ | | $23^h\ 54^m$ | | 6° 22′ | | $23^h\ 55^m$ | | 66° 3′ | |
| Jan. 0 | 56.35 | 11 | 33.5 | 9 | 43.40 | 10 | 10.0 | 7 | 17.41 | 38 | 104.1 | 11 |
| 10 | 56.24 | 10 | 32.6 | 11 | 43.30 | 9 | 9.3 | 8 | 17.03 | 35 | 103.0 | 16 |
| 20 | 56.14 | 9 | 31.5 | 12 | 43.21 | 8 | 8.5 | 7 | 16.68 | 30 | 101.4 | 21 |
| 30 | 56.05 | 7 | 30.3 | 12 | 43.13 | 6 | 7.8 | 7 | 16.38 | 25 | 99.3 | 26 |
| Febr. 9 | 55.98 | 4 | 29.1 | 13 | 43.07 | 5 | 7.1 | 6 | 16.13 | 18 | 96.7 | 29 |
| 19 | 55.94 | 2 | 27.8 | 11 | 43.02 | 1 | 6.5 | 5 | 15.95 | 11 | 93.8 | 32 |
| März 1 | 55.92 | 2 | 26.7 | 10 | 43.01 | 1 | 6.0 | 4 | 15.84 | 4 | 90.6 | 34 |
| 11 | 55.94 | 6 | 25.7 | 9 | 43.02 | 6 | 5.6 | 0 | 15.80 | 5 | 87.2 | 40 |
| 21 | 17 56.00 | 10 | 24.8 | 6 | 19 43.08 | 9 | 5.6 | 2 | 19 15.85 | 13 | 83.2 | 37 |
| 31 | 56.10 | 14 | 24.2 | 2 | 43.17 | 13 | 5.8 | 4 | 15.98 | 22 | 79.5 | 36 |
| April 10 | 56.24 | 18 | 24.0 | 0 | 43.30 | 18 | 6.2 | 7 | 16.20 | 30 | 75.9 | 36 |
| 20 | 56.42 | 22 | 24.0 | 4 | 43.48 | 20 | 6.9 | 10 | 16.50 | 37 | 72.3 | 34 |
| 30 | 56.64 | 26 | 24.4 | 8 | 43.68 | 25 | 7.9 | 13 | 16.87 | 45 | 68.9 | 32 |
| Mai 10 | 56.90 | 29 | 25.2 | 11 | 43.93 | 27 | 9.2 | 15 | 17.32 | 51 | 65.7 | 29 |
| 20 | 57.19 | 31 | 26.3 | 14 | 44.20 | 30 | 10.7 | 18 | 17.83 | 56 | 62.8 | 25 |
| 30 | 57.50 | 32 | 27.7 | 17 | 44.50 | 31 | 12.5 | 19 | 18.39 | 60 | 60.3 | 21 |
| Juni 9 | 57.82 | 34 | 29.4 | 20 | 44.81 | 33 | 14.4 | 20 | 18.99 | 63 | 58.2 | 16 |
| 19 | 58.16 | 33 | 31.4 | 21 | 45.14 | 32 | 16.4 | 21 | 19.62 | 64 | 56.6 | 11 |
| 29 | 58.49 | 32 | 33.5 | 23 | 45.46 | 32 | 18.5 | 21 | 20.26 | 63 | 55.5 | 6 |
| Juli 9 | 58.81 | 30 | 35.8 | 23 | 45.78 | 30 | 20.6 | 21 | 20.89 | 61 | 54.9 | 0 |
| 19 | 59.11 | 28 | 38.1 | 23 | 46.08 | 27 | 22.7 | 20 | 21.50 | 57 | 54.9 | 5 |
| 29 | 59.39 | 24 | 40.4 | 24 | 46.35 | 25 | 24.7 | 20 | 22.07 | 51 | 55.4 | 11 |
| Aug. 8 | 59.63 | 22 | 42.8 | 22 | 46.60 | 22 | 26.7 | 17 | 22.58 | 44 | 56.5 | 16 |
| 18 | 59.85 | 17 | 45.0 | 21 | 46.82 | 17 | 28.4 | 15 | 23.02 | 37 | 58.1 | 19 |
| 28 | 60.02 | 13 | 47.1 | 20 | 46.99 | 14 | 29.9 | 13 | 23.39 | 27 | 60.0 | 23 |
| Sept. 7 | 60.15 | 10 | 49.1 | 17 | 47.13 | 11 | 31.2 | 11 | 23.66 | 17 | 62.3 | 26 |
| 17 | 60.25 | 5 | 50.8 | 16 | 47.24 | 6 | 32.3 | 8 | 23.83 | 7 | 64.9 | 27 |
| 27 | 60.30 | 2 | 52.4 | 13 | 47.30 | 3 | 33.1 | 6 | 23.90 | 2 | 67.6 | 28 |
| Okt. 7 | 60.32 | 1 | 53.7 | 11 | 47.33 | 0 | 33.7 | 4 | 23.88 | 12 | 70.4 | 28 |
| 17 | 60.31 | 4 | 54.8 | 9 | 47.33 | 3 | 34.1 | 2 | 23.76 | 20 | 73.2 | 26 |
| 27 | 60.27 | 6 | 55.7 | 6 | 47.30 | 5 | 34.3 | 0 | 23.56 | 28 | 75.8 | 23 |
| Nov. 6 | 60.21 | 8 | 56.3 | 3 | 47.25 | 7 | 34.3 | 2 | 23.28 | 33 | 78.1 | 19 |
| 16 | 60.13 | 10 | 56.6 | 1 | 47.18 | 9 | 34.1 | 3 | 22.95 | 38 | 80.0 | 15 |
| 26 | 60.03 | 11 | 56.7 | 1 | 47.09 | 9 | 33.8 | 5 | 22.57 | 41 | 81.5 | 9 |
| Dez. 6 | 59.92 | 11 | 56.6 | 4 | 47.00 | 10 | 33.3 | 5 | 22.16 | 42 | 82.4 | 4 |
| 16 | 59.81 | 11 | 56.2 | 6 | 46.90 | 10 | 32.8 | 7 | 21.74 | 42 | 82.8 | 2 |
| 26 | 59.70 | 12 | 55.6 | 8 | 46.80 | 10 | 32.1 | 7 | 21.32 | 40 | 82.6 | 7 |
| 36 | 59.58 | | 54.8 | | 46.70 | | 31.4 | | 20.92 | | 81.9 | |
| Mittl. Ort | 57.50 | | 33.4 | | 44.41 | | 14.0 | | 17.84 | | 80.2 | |
| | 898) | | | | 902) | | | | 903) | | | |

Allgemeine Präzession = 50″.259

$$A = t - 0.02526 \sin 2\odot + 0.00293 \sin(\odot + 81^\circ 49') - 0.34213 \sin \Omega + 0.00409 \sin 2\Omega$$

$$[A' = -0.00405 \sin 2☾ + 0.00134 \sin(☾ - 82^\circ 17')]$$

$$B = -0''.5519 \cos 2\odot - 0.0092 \cos(\odot + 281^\circ 24') - 9.2100 \cos \Omega + 0.0895 \cos 2\Omega$$

$$[B' = -0.0884 \cos 2☾]$$

$$C = -20''.47 \cos \odot \cos \varepsilon$$

$$D = -20''.47 \sin \odot$$

$$E = -0''.0031 \sin 2\odot - 0.0420 \sin \Omega + 0.0014 \sin 2\Omega$$

$$a = 46''.0881 + 20''.0459 \sin \alpha \operatorname{tg} \delta \qquad a' = 20''.0459 \cos \alpha$$

$$b = \cos \alpha \operatorname{tg} \delta \qquad b' = -\sin \alpha$$

$$c = \cos \alpha \sec \delta \qquad c' = \operatorname{tg} \varepsilon \cos \delta - \sin \alpha \sin \delta$$

$$d = \sin \alpha \sec \delta \qquad d' = \cos \alpha \sin \delta$$

$\odot$ = wahre Länge der Sonne

$\Omega$ = Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik

☾ = mittlere Länge des Mondes

$m, m'$ = jährliche Eigenbewegung in AR. und Dekl.

$t$ = Zeit seit Anfang des Jahres, in Teilen des Jahres ausgedrückt.

$$\text{Scheinb. AR.} = \text{AR. } 1911.0 + tm + Aa + Bb + Cc + Dd + E + [A'a + B'b]$$

$$\text{Scheinb. Dekl.} = \text{Dekl. } 1911.0 + tm' + Aa' + Bb' + Cc' + Dd' \quad + [A'a' + B'b']$$

Setzt man

$$f = 46''.0881\, A + E \qquad h \sin H = C$$

$$g \cos G = 20''.0459\, A \qquad h \cos H = D$$

$$g \sin G = B \qquad i = C \operatorname{tg} \varepsilon$$

$$[f' = 46''.0881\, A']$$

$$[g' \cos G' = 20''.0459\, A']$$

$$[g' \sin G' = B'],$$

so wird

$$\text{Scheinb. AR.} = \text{AR. } 1911.0 + tm + f + g \sin(G + \alpha) \operatorname{tg} \delta + h \sin(H + \alpha) \sec \delta + [f' + g' \sin(G' + \alpha) \operatorname{tg} \delta]$$

$$\text{Scheinb. Dekl.} = \text{Dekl. } 1911.0 + tm' + g \cos(G + \alpha) + h \cos(H + \alpha) \sin \delta + i \cos \delta + [g' \cos(G' + \alpha)]$$

Korrektion für die tägliche Aberration, wenn $\Theta$ die Sternzeit, $\varphi$ die Polhöhe ist:

$$\Delta \alpha = + 0^s.0213 \cos \varphi \cos(\Theta - \alpha) \sec \delta$$

$$\Delta \delta = + 0''.320 \cos \varphi \sin(\Theta - \alpha) \sin \delta.$$

## Konstanten für die Sternzeitepochen

$18^h\ 40^m$ des Normalmeridians oder $19^h\ 1^m$ Berlin,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.



| Datum in Mittl. Zeit | $t$ | log. $A$ | log. $B$ | log. $C$ | log. $D$ | $E$ |
|---|---|---|---|---|---|---|
| 1911 Jan. 1.01 | 0.000 | $9.3711_n$ | $0.7654_n$ | $0.5115_n$ | 1.3045 | —0.03 |
| 10.99 | 0.027 | $9.2951_n$ | $0.7771_n$ | $0.8103_n$ | 1.2838 | 0.03 |
| 20.96 | 0.055 | $9.2085_n$ | $0.7920_n$ | $0.9763_n$ | 1.2474 | 0.03 |
| 30.93 | 0.082 | $9.1095_n$ | $0.8087_n$ | $1.0855_n$ | 1.1927 | 0.03 |
| Febr. 9.91 | 0.109 | $8.9950_n$ | $0.8255_n$ | $1.1612_n$ | 1.1144 | 0.03 |
| 19.88 | 0.137 | $8.8581_n$ | $0.8407_n$ | $1.2138_n$ | 1.0022 | —0.03 |
| März 1.85 | 0.164 | $8.6820_n$ | $0.8532_n$ | $1.2483_n$ | 0.8320 | 0.03 |
| 11.82 | 0.191 | $8.4141_n$ | $0.8623_n$ | $1.2678_n$ | 0.5242 | 0.03 |
| 21.80 | 0.218 | $7.6830_n$ | $0.8674_n$ | $1.2737_n$ | $9.2714_n$ | 0.03 |
| 31.77 | 0.246 | 8.2135 | $0.8686_n$ | $1.2665_n$ | $0.5673_n$ | 0.03 |
| April 10.74 | 0.273 | 8.5858 | $0.8663_n$ | $1.2461_n$ | $0.8494_n$ | —0.03 |
| 20.71 | 0.300 | 8.7964 | $0.8610_n$ | $1.2114_n$ | $1.0096_n$ | 0.03 |
| 30.69 | 0.328 | 8.9498 | $0.8538_n$ | $1.1601_n$ | $1.1161_n$ | 0.03 |
| Mai 10.66 | 0.355 | 9.0732 | $0.8457_n$ | $1.0878_n$ | $1.1910_n$ | 0.03 |
| 20.63 | 0.382 | 9.1772 | $0.8381_n$ | $0.9864_n$ | $1.2439_n$ | 0.03 |
| 30.60 | 0.410 | 9.2668 | $0.8321_n$ | $0.8377_n$ | $1.2798_n$ | —0.03 |
| Juni 9.58 | 0.437 | 9.3447 | $0.8289_n$ | $0.5898_n$ | $1.3016_n$ | 0.03 |
| 19.55 | 0.464 | 9.4126 | $0.8292_n$ | $9.9005_n$ | $1.3107_n$ | 0.03 |
| 29.52 | 0.491 | 9.4716 | $0.8334_n$ | 0.3648 | $1.3078_n$ | 0.02 |
| Juli 9.50 | 0.519 | 9.5226 | $0.8410_n$ | 0.7294 | $1.2927_n$ | 0.02 |
| 19.47 | 0.546 | 9.5666 | $0.8516_n$ | 0.9171 | $1.2644_n$ | —0.02 |
| 29.44 | 0.573 | 9.6043 | $0.8641_n$ | 1.0390 | $1.2211_n$ | 0.02 |
| Aug. 8.41 | 0.601 | 9.6363 | $0.8774_n$ | 1.1245 | $1.1593_n$ | 0.02 |
| 18.39 | 0.628 | 9.6636 | $0.8902_n$ | 1.1857 | $1.0723_n$ | 0.02 |
| 28.36 | 0.655 | 9.6869 | $0.9016_n$ | 1.2287 | $0.9471_n$ | 0.02 |
| Sept. 7.33 | 0.683 | 9.7073 | $0.9106_n$ | 1.2566 | $0.7507_n$ | —0.02 |
| 17.30 | 0.710 | 9.7255 | $0.9166_n$ | 1.2711 | $0.3488_n$ | 0.02 |
| 27.28 | 0.737 | 9.7426 | $0.9193_n$ | 1.2729 | 0.0967 | 0.02 |
| Okt. 7.25 | 0.765 | 9.7593 | $0.9186_n$ | 1.2618 | 0.6734 | 0.02 |
| 17.22 | 0.792 | 9.7764 | $0.9149_n$ | 1.2371 | 0.9063 | 0.02 |
| 27.20 | 0.819 | 9.7944 | $0.9086_n$ | 1.1967 | 1.0486 | —0.02 |
| Nov. 6.17 | 0.846 | 9.8136 | $0.9008_n$ | 1.1371 | 1.1457 | 0.02 |
| 16.14 | 0.874 | 9.8340 | $0.8924_n$ | 1.0518 | 1.2142 | 0.02 |
| 26.11 | 0.901 | 9.8553 | $0.8849_n$ | 0.9277 | 1.2618 | 0.02 |
| Dez. 6.09 | 0.928 | 9.8772 | $0.8796_n$ | 0.7317 | 1.2924 | 0.02 |
| 16.06 | 0.956 | 9.8989 | $0.8774_n$ | 0.3305 | 1.3083 | —0.02 |
| 26.03 | 0.983 | 9.9200 | $0.8790_n$ | $0.0730_n$ | 1.3103 | 0.02 |
| 36.00 | 1.010 | 9.9400 | $0.8845_n$ | $0.6505_n$ | 1.2984 | 0.02 |

## Konstanten für die mittleren Tage 1911,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

| 12h Mittl. Zeit | *f* | log. *g* | *G* | log. *h* | *H* | log. *i* | ☾ |
|---|---|---|---|---|---|---|---|
| Jan. 0 | −10″.95 | 0.8758 | 230° 47′ | 1.3102 | 351° 20′ | 0.1255$_n$ | 795 |
| 1 | 10.77 | 0.8736 | 231 18 | 1.3100 | 350 24 | 0.1697$_n$ | 832 |
| 2 | 10.59 | 0.8714 | 231 50 | 1.3098 | 349 27 | 0.2096$_n$ | 868 |
| 3 | 10.42 | 0.8693 | 232 22 | 1.3095 | 348 31 | 0.2460$_n$ | 905 |
| 4 | 10.24 | 0.8673 | 232 54 | 1.3092 | 347 34 | 0.2795$_n$ | 941 |
| 5 | −10.07 | 0.8653 | 233 27 | 1.3089 | 346 38 | 0.3105$_n$ | 978 |
| 6 | 9.89 | 0.8634 | 234 0 | 1.3086 | 345 41 | 0.3392$_n$ | 015 |
| 7 | 9.72 | 0.8615 | 234 34 | 1.3083 | 344 44 | 0.3661$_n$ | 051 |
| 8 | 9.54 | 0.8597 | 235 8 | 1.3080 | 343 47 | 0.3912$_n$ | 088 |
| 9 | 9.37 | 0.8580 | 235 42 | 1.3076 | 342 50 | 0.4148$_n$ | 124 |
| 10 | − 9.20 | 0.8564 | 236 16 | 1.3072 | 341 53 | 0.4371$_n$ | 161 |
| 11 | 9.03 | 0.8549 | 236 50 | 1.3068 | 340 56 | 0.4582$_n$ | 198 |
| 12 | 8.86 | 0.8535 | 237 25 | 1.3064 | 339 59 | 0.4782$_n$ | 234 |
| 13 | 8.69 | 0.8521 | 238 0 | 1.3059 | 339 1 | 0.4971$_n$ | 271 |
| 14 | 8.52 | 0.8508 | 238 35 | 1.3055 | 338 4 | 0.5152$_n$ | 307 |
| 15 | − 8.36 | 0.8496 | 239 10 | 1.3050 | 337 6 | 0.5323$_n$ | 344 |
| 16 | 8.19 | 0.8485 | 239 45 | 1.3045 | 336 8 | 0.5487$_n$ | 381 |
| 17 | 8.03 | 0.8474 | 240 21 | 1.3040 | 335 11 | 0.5644$_n$ | 417 |
| 18 | 7.87 | 0.8465 | 240 56 | 1.3035 | 334 13 | 0.5793$_n$ | 454 |
| 19 | 7.71 | 0.8456 | 241 32 | 1.3030 | 333 15 | 0.5937$_n$ | 490 |
| 20 | − 7.55 | 0.8448 | 242 8 | 1.3024 | 332 16 | 0.6074$_n$ | 527 |
| 21 | 7.39 | 0.8441 | 242 43 | 1.3019 | 331 18 | 0.6206$_n$ | 564 |
| 22 | 7.23 | 0.8435 | 243 18 | 1.3013 | 330 20 | 0.6333$_n$ | 600 |
| 23 | 7.07 | 0.8429 | 243 54 | 1.3007 | 329 21 | 0.6455$_n$ | 637 |
| 24 | 6.91 | 0.8424 | 244 29 | 1.3002 | 328 22 | 0.6572$_n$ | 673 |
| 25 | − 6.76 | 0.8420 | 245 4 | 1.2996 | 327 23 | 0.6684$_n$ | 710 |
| 26 | 6.61 | 0.8417 | 245 39 | 1.2990 | 326 24 | 0.6793$_n$ | 747 |
| 27 | 6.46 | 0.8414 | 246 13 | 1.2983 | 325 25 | 0.6897$_n$ | 783 |
| 28 | 6.31 | 0.8412 | 246 47 | 1.2977 | 324 25 | 0.6998$_n$ | 820 |
| 29 | 6.16 | 0.8411 | 247 21 | 1.2971 | 323 26 | 0.7095$_n$ | 856 |
| 30 | − 6.01 | 0.8410 | 247 55 | 1.2964 | 322 26 | 0.7188$_n$ | 893 |
| 31 | 5.87 | 0.8410 | 248 29 | 1.2958 | 321 26 | 0.7278$_n$ | 930 |
| Febr. 1 | 5.73 | 0.8411 | 249 3 | 1.2951 | 320 26 | 0.7365$_n$ | 966 |
| 2 | 5.59 | 0.8412 | 249 36 | 1.2945 | 319 26 | 0.7449$_n$ | 003 |
| 3 | 5.45 | 0.8414 | 250 9 | 1.2938 | 318 26 | 0.7530$_n$ | 039 |
| 4 | − 5.31 | 0.8417 | 250 41 | 1.2932 | 317 25 | 0.7608$_n$ | 076 |
| 5 | 5.17 | 0.8420 | 251 13 | 1.2925 | 316 24 | 0.7683$_n$ | 113 |
| 6 | 5.04 | 0.8423 | 251 45 | 1.2919 | 315 23 | 0.7756$_n$ | 149 |

## Konstanten für die mittleren Tage 1911,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

| 12^h Mittl. Zeit | $f$ | log. $g$ | $G$ | log. $h$ | $H$ | log. $i$ | ☾ |
|---|---|---|---|---|---|---|---|
| Febr. 6 | −5.04 | 0.8423 | 251° 45′ | 1.2919 | 315° 23′ | $0.7756_n$ | 149 |
| 7 | 4.90 | 0.8427 | 252 16 | 1.2912 | 314 22 | $0.7826_n$ | 186 |
| 8 | 4.77 | 0.8431 | 252 47 | 1.2905 | 313 21 | $0.7894_n$ | 222 |
| 9 | 4.64 | 0.8435 | 253 18 | 1.2899 | 312 20 | $0.7959_n$ | 259 |
| 10 | 4.51 | 0.8440 | 253 48 | 1.2892 | 311 18 | $0.8022_n$ | 296 |
| 11 | −4.38 | 0.8445 | 254 18 | 1.2886 | 310 17 | $0.8083_n$ | 332 |
| 12 | 4.25 | 0.8451 | 254 47 | 1.2879 | 309 15 | $0.8141_n$ | 369 |
| 13 | 4.12 | 0.8457 | 255 16 | 1.2873 | 308 13 | $0.8198_n$ | 405 |
| 14 | 4.00 | 0.8463 | 255 45 | 1.2866 | 307 11 | $0.8252_n$ | 442 |
| 15 | 3.87 | 0.8469 | 256 13 | 1.2860 | 306 9 | $0.8304_n$ | 479 |
| 16 | −3.75 | 0.8476 | 256 41 | 1.2854 | 305 6 | $0.8355_n$ | 515 |
| 17 | 3.63 | 0.8483 | 257 9 | 1.2847 | 304 3 | $0.8403_n$ | 552 |
| 18 | 3.51 | 0.8490 | 257 36 | 1.2841 | 303 1 | $0.8449_n$ | 588 |
| 19 | 3.39 | 0.8497 | 258 3 | 1.2836 | 301 58 | $0.8494_n$ | 625 |
| 20 | 3.28 | 0.8504 | 258 29 | 1.2830 | 300 55 | $0.8537_n$ | 662 |
| 21 | −3.16 | 0.8511 | 258 55 | 1.2824 | 299 51 | $0.8578_n$ | 698 |
| 22 | 3.05 | 0.8518 | 259 21 | 1.2818 | 298 48 | $0.8617_n$ | 735 |
| 23 | 2.93 | 0.8525 | 259 46 | 1.2813 | 297 45 | $0.8655_n$ | 771 |
| 24 | 2.82 | 0.8533 | 260 11 | 1.2807 | 296 41 | $0.8691_n$ | 808 |
| 25 | 2.71 | 0.8540 | 260 35 | 1.2802 | 295 37 | $0.8725_n$ | 845 |
| 26 | −2.60 | 0.8548 | 260 59 | 1.2797 | 294 33 | $0.8758_n$ | 881 |
| 27 | 2.49 | 0.8555 | 261 23 | 1.2792 | 293 29 | $0.8789_n$ | 918 |
| 28 | 2.38 | 0.8562 | 261 47 | 1.2787 | 292 25 | $0.8819_n$ | 954 |
| März 1 | 2.27 | 0.8569 | 262 10 | 1.2783 | 291 21 | $0.8847_n$ | 991 |
| 2 | 2.17 | 0.8576 | 262 33 | 1.2779 | 290 17 | $0.8873_n$ | 028 |
| 3 | −2.06 | 0.8583 | 262 56 | 1.2774 | 289 12 | $0.8898_n$ | 064 |
| 4 | 1.96 | 0.8590 | 263 19 | 1.2770 | 288 8 | $0.8922_n$ | 101 |
| 5 | 1.85 | 0.8597 | 263 41 | 1.2767 | 287 3 | $0.8944_n$ | 137 |
| 6 | 1.75 | 0.8603 | 264 3 | 1.2763 | 285 59 | $0.8965_n$ | 174 |
| 7 | 1.65 | 0.8610 | 264 25 | 1.2760 | 284 54 | $0.8984_n$ | 211 |
| 8 | −1.55 | 0.8616 | 264 46 | 1.2757 | 283 49 | $0.9002_n$ | 247 |
| 9 | 1.45 | 0.8622 | 265 7 | 1.2754 | 282 45 | $0.9018_n$ | 284 |
| 10 | 1.35 | 0.8628 | 265 28 | 1.2751 | 281 40 | $0.9033_n$ | 320 |
| 11 | 1.25 | 0.8633 | 265 49 | 1.2748 | 280 35 | $0.9047_n$ | 357 |
| 12 | 1.15 | 0.8638 | 266 9 | 1.2746 | 279 30 | $0.9059_n$ | 394 |
| 13 | −1.05 | 0.8643 | 266 30 | 1.2744 | 278 25 | $0.9070_n$ | 430 |
| 14 | 0.95 | 0.8647 | 266 50 | 1.2742 | 277 20 | $0.9080_n$ | 467 |
| 15 | 0.85 | 0.8652 | 267 10 | 1.2741 | 276 15 | $0.9088_n$ | 503 |

# Konstanten für die mittleren Tage 1911,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

| $12^h$ Mittl. Zeit | *f* | log. *g* | *G* | log. *h* | *H* | log. *i* | ☾ |
|---|---|---|---|---|---|---|---|
| März 15 | −0.85 | 0.8652 | 267° 10′ | 1.2741 | 276° 15′ | $0.9088_n$ | 503 |
| 16 | 0.76 | 0.8656 | 267 30 | 1.2740 | 275 10 | $0.9095_n$ | 540 |
| 17 | 0.66 | 0.8660 | 267 50 | 1.2739 | 274 5 | $0.9100_n$ | 577 |
| 18 | 0.56 | 0.8664 | 268 10 | 1.2738 | 273 0 | $0.9105_n$ | 613 |
| 19 | 0.47 | 0.8668 | 268 30 | 1.2737 | 271 55 | $0.9108_n$ | 650 |
| 20 | −0.37 | 0.8671 | 268 50 | 1.2737 | 270 50 | $0.9109_n$ | 686 |
| 21 | 0.28 | 0.8674 | 269 10 | 1.2737 | 269 45 | $0.9110_n$ | 723 |
| 22 | 0.18 | 0.8677 | 269 30 | 1.2737 | 268 40 | $0.9109_n$ | 760 |
| 23 | −0.09 | 0.8680 | 269 50 | 1.2737 | 267 35 | $0.9106_n$ | 796 |
| 24 | +0.01 | 0.8682 | 270 9 | 1.2738 | 266 31 | $0.9103_n$ | 833 |
| 25 | +0.10 | 0.8684 | 270 28 | 1.2739 | 265 26 | $0.9098_n$ | 869 |
| 26 | 0.20 | 0.8686 | 270 48 | 1.2740 | 264 21 | $0.9092_n$ | 906 |
| 27 | 0.30 | 0.8688 | 271 8 | 1.2741 | 263 17 | $0.9084_n$ | 943 |
| 28 | 0.40 | 0.8689 | 271 28 | 1.2743 | 262 12 | $0.9076_n$ | 979 |
| 29 | 0.50 | 0.8690 | 271 48 | 1.2745 | 261 8 | $0.9066_n$ | 016 |
| 30 | +0.60 | 0.8691 | 272 8 | 1.2747 | 260 3 | $0.9054_n$ | 052 |
| 31 | 0.70 | 0.8691 | 272 28 | 1.2749 | 258 59 | $0.9041_n$ | 089 |
| April 1 | 0.80 | 0.8692 | 272 48 | 1.2752 | 257 55 | $0.9027_n$ | 126 |
| 2 | 0.90 | 0.8692 | 273 8 | 1.2755 | 256 51 | $0.9012_n$ | 162 |
| 3 | 1.00 | 0.8692 | 273 29 | 1.2758 | 255 47 | $0.8995_n$ | 199 |
| 4 | +1.10 | 0.8692 | 273 49 | 1.2761 | 254 43 | $0.8977_n$ | 235 |
| 5 | 1.20 | 0.8692 | 274 10 | 1.2764 | 253 40 | $0.8958_n$ | 272 |
| 6 | 1.30 | 0.8691 | 274 31 | 1.2768 | 252 36 | $0.8937_n$ | 309 |
| 7 | 1.41 | 0.8691 | 274 52 | 1.2772 | 251 33 | $0.8915_n$ | 345 |
| 8 | 1.51 | 0.8690 | 275 13 | 1.2776 | 250 30 | $0.8892_n$ | 382 |
| 9 | +1.62 | 0.8689 | 275 34 | 1.2780 | 249 27 | $0.8867_n$ | 418 |
| 10 | 1.72 | 0.8688 | 275 55 | 1.2784 | 248 24 | $0.8840_n$ | 455 |
| 11 | 1.83 | 0.8687 | 276 17 | 1.2788 | 247 21 | $0.8812_n$ | 492 |
| 12 | 1.94 | 0.8685 | 276 39 | 1.2793 | 246 19 | $0.8783_n$ | 528 |
| 13 | 2.05 | 0.8684 | 277 1 | 1.2798 | 245 16 | $0.8753_n$ | 565 |
| 14 | +2.16 | 0.8682 | 277 23 | 1.2803 | 244 14 | $0.8721_n$ | 601 |
| 15 | 2.27 | 0.8681 | 277 46 | 1.2808 | 243 12 | $0.8687_n$ | 638 |
| 16 | 2.38 | 0.8680 | 278 9 | 1.2813 | 242 10 | $0.8652_n$ | 675 |
| 17 | 2.49 | 0.8679 | 278 32 | 1.2818 | 241 8 | $0.8615_n$ | 711 |
| 18 | 2.60 | 0.8677 | 278 55 | 1.2824 | 240 7 | $0.8577_n$ | 748 |
| 19 | +2.72 | 0.8676 | 279 19 | 1.2829 | 239 6 | $0.8537_n$ | 784 |
| 20 | 2.83 | 0.8675 | 279 43 | 1.2835 | 238 5 | $0.8496_n$ | 821 |
| 21 | 2.95 | 0.8673 | 280 7 | 1.2841 | 237 4 | $0.8453_n$ | 858 |

# Konstanten für die mittleren Tage 1911,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

| $12^h$ Mittl. Zeit | *f* | log. *g* | *G* | log. *h* | *H* | log. *i* | ☾ |
|---|---|---|---|---|---|---|---|
| April 21 | +2.95 | 0.8673 | 280° 7' | 1.2841 | 237° 4' | $0.8453_n$ | 858 |
| 22 | 3.07 | 0.8672 | 280 31 | 1.2847 | 236 3 | $0.8408_n$ | 894 |
| 23 | 3.19 | 0.8671 | 280 56 | 1.2853 | 235 3 | $0.8361_n$ | 931 |
| 24 | 3.31 | 0.8670 | 281 21 | 1.2859 | 234 2 | $0.8313_n$ | 967 |
| 25 | 3.43 | 0.8669 | 281 47 | 1.2865 | 233 2 | $0.8263_n$ | 004 |
| 26 | +3.55 | 0.8669 | 282 13 | 1.2871 | 232 2 | $0.8211_n$ | 041 |
| 27 | 3.68 | 0.8669 | 282 39 | 1.2877 | 231 3 | $0.8158_n$ | 077 |
| 28 | 3.80 | 0.8669 | 283 5 | 1.2883 | 230 3 | $0.8102_n$ | 114 |
| 29 | 3.93 | 0.8669 | 283 31 | 1.2890 | 229 4 | $0.8044_n$ | 150 |
| 30 | 4.06 | 0.8669 | 283 58 | 1.2896 | 228 5 | $0.7985_n$ | 187 |
| Mai 1 | +4.19 | 0.8670 | 284 25 | 1.2902 | 227 6 | $0.7923_n$ | 224 |
| 2 | 4.32 | 0.8671 | 284 52 | 1.2909 | 226 7 | $0.7860_n$ | 260 |
| 3 | 4.45 | 0.8672 | 285 20 | 1.2915 | 225 9 | $0.7794_n$ | 297 |
| 4 | 4.58 | 0.8674 | 285 48 | 1.2921 | 224 10 | $0.7726_n$ | 333 |
| 5 | 4.72 | 0.8676 | 286 16 | 1.2928 | 223 12 | $0.7655_n$ | 370 |
| 6 | +4.85 | 0.8678 | 286 44 | 1.2934 | 222 14 | $0.7582_n$ | 407 |
| 7 | 4.99 | 0.8681 | 287 12 | 1.2940 | 221 17 | $0.7507_n$ | 443 |
| 8 | 5.13 | 0.8684 | 287 40 | 1.2947 | 220 19 | $0.7429_n$ | 480 |
| 9 | 5.27 | 0.8688 | 288 9 | 1.2953 | 219 22 | $0.7348_n$ | 516 |
| 10 | 5.41 | 0.8692 | 288 38 | 1.2959 | 218 25 | $0.7265_n$ | 553 |
| 11 | +5.55 | 0.8697 | 289 7 | 1.2965 | 217 28 | $0.7179_n$ | 590 |
| 12 | 5.69 | 0.8702 | 289 36 | 1.2971 | 216 31 | $0.7090_n$ | 626 |
| 13 | 5.84 | 0.8708 | 290 6 | 1.2977 | 215 34 | $0.6998_n$ | 663 |
| 14 | 5.98 | 0.8714 | 290 35 | 1.2983 | 214 38 | $0.6902_n$ | 699 |
| 15 | 6.13 | 0.8720 | 291 5 | 1.2989 | 213 42 | $0.6803_n$ | 736 |
| 16 | +6.28 | 0.8727 | 291 35 | 1.2995 | 212 46 | $0.6701_n$ | 773 |
| 17 | 6.43 | 0.8734 | 292 5 | 1.3000 | 211 50 | $0.6595_n$ | 809 |
| 18 | 6.58 | 0.8742 | 292 35 | 1.3006 | 210 54 | $0.6485_n$ | 846 |
| 19 | 6.73 | 0.8751 | 293 5 | 1.3011 | 209 59 | $0.6371_n$ | 882 |
| 20 | 6.88 | 0.8760 | 293 35 | 1.3017 | 209 3 | $0.6253_n$ | 919 |
| 21 | +7.04 | 0.8770 | 294 5 | 1.3022 | 208 8 | $0.6130_n$ | 956 |
| 22 | 7.19 | 0.8781 | 294 35 | 1.3027 | 207 13 | $0.6003_n$ | 992 |
| 23 | 7.35 | 0.8792 | 295 5 | 1.3032 | 206 18 | $0.5870_n$ | 029 |
| 24 | 7.51 | 0.8804 | 295 35 | 1.3037 | 205 23 | $0.5733_n$ | 065 |
| 25 | 7.67 | 0.8816 | 296 5 | 1.3042 | 204 29 | $0.5589_n$ | 102 |
| 26 | +7.83 | 0.8829 | 296 35 | 1.3047 | 203 34 | $0.5439_n$ | 139 |
| 27 | 7.99 | 0.8842 | 297 5 | 1.3051 | 202 40 | $0.5283_n$ | 175 |
| 28 | 8.15 | 0.8856 | 297 35 | 1.3056 | 201 46 | $0.5120_n$ | 212 |

## Konstanten für die mittleren Tage 1911,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

| 12h Mittl. Zeit | $f$ | log. $g$ | $G$ | log. $h$ | $H$ | log. $i$ | ☾ |
|---|---|---|---|---|---|---|---|
| Mai 28 | + 8.15″ | 0.8856 | 297° 35′ | 1.3056 | 201° 46′ | 0.5120$_n$ | 212 |
| 29 | 8.31 | 0.8870 | 298 4 | 1.3060 | 200 52 | 0.4949$_n$ | 248 |
| 30 | 8.47 | 0.8885 | 298 34 | 1.3064 | 199 58 | 0.4770$_n$ | 285 |
| 31 | 8.64 | 0.8901 | 299 3 | 1.3068 | 199 4 | 0.4581$_n$ | 322 |
| Juni 1 | 8.81 | 0.8917 | 299 32 | 1.3072 | 198 10 | 0.4383$_n$ | 358 |
| 2 | + 8.97 | 0.8934 | 300 1 | 1.3075 | 197 16 | 0.4175$_n$ | 395 |
| 3 | 9.14 | 0.8951 | 300 30 | 1.3079 | 196 23 | 0.3955$_n$ | 431 |
| 4 | 9.31 | 0.8969 | 300 58 | 1.3082 | 195 29 | 0.3720$_n$ | 468 |
| 5 | 9.48 | 0.8988 | 301 26 | 1.3085 | 194 36 | 0.3474$_n$ | 505 |
| 6 | 9.64 | 0.9007 | 301 54 | 1.3088 | 193 43 | 0.3210$_n$ | 541 |
| 7 | + 9.81 | 0.9027 | 302 22 | 1.3091 | 192 50 | 0.2928$_n$ | 578 |
| 8 | 9.98 | 0.9047 | 302 50 | 1.3094 | 191 57 | 0.2625$_n$ | 614 |
| 9 | 10.15 | 0.9068 | 303 17 | 1.3096 | 191 4 | 0.2298$_n$ | 651 |
| 10 | 10.32 | 0.9089 | 303 44 | 1.3098 | 190 11 | 0.1943$_n$ | 688 |
| 11 | 10.49 | 0.9111 | 304 11 | 1.3100 | 189 18 | 0.1555$_n$ | 724 |
| 12 | +10.67 | 0.9133 | 304 37 | 1.3102 | 188 25 | 0.1129$_n$ | 761 |
| 13 | 10.84 | 0.9155 | 305 3 | 1.3104 | 187 32 | 0.0654$_n$ | 797 |
| 14 | 11.01 | 0.9178 | 305 28 | 1.3106 | 186 39 | 0.0120$_n$ | 834 |
| 15 | 11.19 | 0.9201 | 305 53 | 1.3107 | 185 47 | 9.9510$_n$ | 871 |
| 16 | 11.36 | 0.9225 | 306 18 | 1.3108 | 184 54 | 9.8797$_n$ | 907 |
| 17 | +11.54 | 0.9249 | 306 43 | 1.3109 | 184 1 | 9.7943$_n$ | 944 |
| 18 | 11.71 | 0.9274 | 307 7 | 1.3110 | 183 9 | 9.6879$_n$ | 980 |
| 19 | 11.89 | 0.9299 | 307 31 | 1.3111 | 182 16 | 9.5464$_n$ | 017 |
| 20 | 12.06 | 0.9324 | 307 54 | 1.3111 | 181 24 | 9.3353$_n$ | 054 |
| 21 | 12.23 | 0.9349 | 308 17 | 1.3111 | 180 31 | 8.9074$_n$ | 090 |
| 22 | +12.41 | 0.9375 | 308 39 | 1.3111 | 179 39 | 8.7396 | 127 |
| 23 | 12.58 | 0.9401 | 309 1 | 1.3111 | 178 46 | 9.2799 | 163 |
| 24 | 12.75 | 0.9427 | 309 23 | 1.3111 | 177 54 | 9.5132 | 200 |
| 25 | 12.92 | 0.9453 | 309 44 | 1.3110 | 177 1 | 9.6641 | 237 |
| 26 | 13.10 | 0.9480 | 310 5 | 1.3109 | 176 9 | 9.7758 | 273 |
| 27 | +13.27 | 0.9506 | 310 25 | 1.3108 | 175 16 | 9.8644 | 310 |
| 28 | 13.45 | 0.9533 | 310 45 | 1.3107 | 174 24 | 9.9380 | 346 |
| 29 | 13.63 | 0.9560 | 311 4 | 1.3106 | 173 31 | 0.0006 | 383 |
| 30 | 13.80 | 0.9587 | 311 23 | 1.3105 | 172 38 | 0.0553 | 420 |
| Juli 1 | 13.97 | 0.9614 | 311 42 | 1.3103 | 171 46 | 0.1038 | 456 |
| 2 | +14.14 | 0.9642 | 312 0 | 1.3101 | 170 53 | 0.1472 | 493 |
| 3 | 14.31 | 0.9669 | 312 18 | 1.3099 | 170 0 | 0.1866 | 530 |
| 4 | 14.49 | 0.9697 | 312 35 | 1.3097 | 169 8 | 0.2226 | 566 |

# Konstanten für die mittleren Tage 1911,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

| 12h Mittl. Zeit | *f* | log. *g* | *G* | log. *h* | *H* | log. *i* | ☾ |
|---|---|---|---|---|---|---|---|
| Juli 4 | +14.49 | 0.9697 | 312° 35' | 1.3097 | 169° 8' | 0.2226 | 566 |
| 5 | 14.66 | 0.9724 | 312 52 | 1.3094 | 168 15 | 0.2558 | 603 |
| 6 | 14.83 | 0.9752 | 313 9 | 1.3092 | 167 22 | 0.2865 | 639 |
| 7 | 15.00 | 0.9779 | 313 25 | 1.3089 | 166 29 | 0.3150 | 676 |
| 8 | 15.17 | 0.9807 | 313 41 | 1.3086 | 165 36 | 0.3417 | 713 |
| 9 | +15.34 | 0.9835 | 313 56 | 1.3083 | 164 42 | 0.3667 | 749 |
| 10 | 15.50 | 0.9863 | 314 11 | 1.3080 | 163 49 | 0.3902 | 786 |
| 11 | 15.67 | 0.9891 | 314 25 | 1.3076 | 162 56 | 0.4125 | 822 |
| 12 | 15.83 | 0.9919 | 314 39 | 1.3073 | 162 3 | 0.4335 | 859 |
| 13 | 16.00 | 0.9947 | 314 53 | 1.3069 | 161 9 | 0.4534 | 896 |
| 14 | +16.16 | 0.9974 | 315 6 | 1.3065 | 160 16 | 0.4724 | 932 |
| 15 | 16.33 | 1.0001 | 315 19 | 1.3061 | 159 22 | 0.4904 | 969 |
| 16 | 16.49 | 1.0028 | 315 32 | 1.3057 | 158 28 | 0.5076 | 005 |
| 17 | 16.65 | 1.0055 | 315 44 | 1.3053 | 157 34 | 0.5241 | 042 |
| 18 | 16.81 | 1.0082 | 315 56 | 1.3048 | 156 40 | 0.5398 | 079 |
| 19 | +16.97 | 1.0109 | 316 8 | 1.3043 | 155 46 | 0.5549 | 115 |
| 20 | 17.13 | 1.0136 | 316 19 | 1.3039 | 154 52 | 0.5693 | 152 |
| 21 | 17.29 | 1.0163 | 316 30 | 1.3034 | 153 57 | 0.5832 | 188 |
| 22 | 17.44 | 1.0189 | 316 41 | 1.3029 | 153 3 | 0.5965 | 225 |
| 23 | 17.60 | 1.0215 | 316 52 | 1.3024 | 152 8 | 0.6093 | 262 |
| 24 | +17.75 | 1.0241 | 317 2 | 1.3019 | 151 13 | 0.6216 | 298 |
| 25 | 17.91 | 1.0267 | 317 12 | 1.3013 | 150 18 | 0.6335 | 335 |
| 26 | 18.06 | 1.0293 | 317 21 | 1.3008 | 149 23 | 0.6449 | 371 |
| 27 | 18.21 | 1.0319 | 317 30 | 1.3002 | 148 28 | 0.6560 | 408 |
| 28 | 18.36 | 1.0344 | 317 39 | 1.2997 | 147 33 | 0.6666 | 445 |
| 29 | +18.51 | 1.0369 | 317 48 | 1.2991 | 146 37 | 0.6769 | 481 |
| 30 | 18.66 | 1.0394 | 317 56 | 1.2985 | 145 42 | 0.6868 | 518 |
| 31 | 18.81 | 1.0419 | 318 4 | 1.2979 | 144 46 | 0.6964 | 554 |
| Aug. 1 | 18.95 | 1.0443 | 318 12 | 1.2973 | 143 50 | 0.7056 | 591 |
| 2 | 19.10 | 1.0467 | 318 20 | 1.2967 | 142 53 | 0.7146 | 628 |
| 3 | +19.24 | 1.0491 | 318 27 | 1.2961 | 141 57 | 0.7232 | 664 |
| 4 | 19.38 | 1.0515 | 318 34 | 1.2955 | 141 0 | 0.7316 | 701 |
| 5 | 19.52 | 1.0539 | 318 41 | 1.2949 | 140 4 | 0.7397 | 737 |
| 6 | 19.66 | 1.0562 | 318 48 | 1.2943 | 139 7 | 0.7475 | 774 |
| 7 | 19.80 | 1.0585 | 318 55 | 1.2937 | 138 10 | 0.7551 | 811 |
| 8 | +19.94 | 1.0608 | 319 2 | 1.2930 | 137 12 | 0.7624 | 847 |
| 9 | 20.07 | 1.0630 | 319 8 | 1.2924 | 136 15 | 0.7695 | 884 |
| 10 | 20.21 | 1.0652 | 319 14 | 1.2918 | 135 17 | 0.7763 | 920 |

# Konstanten für die mittleren Tage 1911,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

| 12h Mittl. Zeit | f | log. g | G | log. h | H | log. i | ☾ |
|---|---|---|---|---|---|---|---|
| Aug. 10 | +20.21 | 1.0652 | 319° 14′ | 1.2918 | 135° 17′ | 0.7763 | 920 |
| 11 | 20.34 | 1.0674 | 319 20 | 1.2912 | 134 20 | 0.7830 | 957 |
| 12 | 20.47 | 1.0696 | 319 26 | 1.2905 | 133 22 | 0.7894 | 994 |
| 13 | 20.60 | 1.0717 | 319 31 | 1.2899 | 132 23 | 0.7956 | 030 |
| 14 | 20.73 | 1.0738 | 319 37 | 1.2893 | 131 25 | 0.8016 | 067 |
| 15 | +20.86 | 1.0758 | 319 42 | 1.2887 | 130 26 | 0.8074 | 103 |
| 16 | 20.99 | 1.0779 | 319 48 | 1.2880 | 129 28 | 0.8130 | 140 |
| 17 | 21.11 | 1.0799 | 319 53 | 1.2874 | 128 29 | 0.8184 | 177 |
| 18 | 21.24 | 1.0819 | 319 58 | 1.2868 | 127 30 | 0.8236 | 213 |
| 19 | 21.36 | 1.0839 | 320 3 | 1.2862 | 126 30 | 0.8286 | 250 |
| 20 | +21.48 | 1.0858 | 320 8 | 1.2856 | 125 31 | 0.8335 | 286 |
| 21 | 21.60 | 1.0878 | 320 13 | 1.2850 | 124 31 | 0.8382 | 323 |
| 22 | 21.72 | 1.0897 | 320 18 | 1.2844 | 123 31 | 0.8427 | 360 |
| 23 | 21.84 | 1.0915 | 320 22 | 1.2839 | 122 31 | 0.8471 | 396 |
| 24 | 21.96 | 1.0933 | 320 26 | 1.2833 | 121 31 | 0.8513 | 433 |
| 25 | +22.07 | 1.0951 | 320 31 | 1.2827 | 120 30 | 0.8553 | 469 |
| 26 | 22.19 | 1.0969 | 320 35 | 1.2822 | 119 30 | 0.8592 | 506 |
| 27 | 22.30 | 1.0987 | 320 40 | 1.2817 | 118 29 | 0.8629 | 543 |
| 28 | 22.41 | 1.1004 | 320 44 | 1.2811 | 117 28 | 0.8665 | 579 |
| 29 | 22.52 | 1.1021 | 320 49 | 1.2806 | 116 27 | 0.8699 | 616 |
| 30 | +22.63 | 1.1038 | 320 53 | 1.2801 | 115 25 | 0.8732 | 652 |
| 31 | 22.74 | 1.1054 | 320 58 | 1.2796 | 114 24 | 0.8763 | 689 |
| Sept. 1 | 22.85 | 1.1070 | 321 2 | 1.2792 | 113 22 | 0.8793 | 726 |
| 2 | 22.96 | 1.1086 | 321 6 | 1.2787 | 112 20 | 0.8821 | 762 |
| 3 | 23.07 | 1.1102 | 321 10 | 1.2783 | 111 18 | 0.8848 | 799 |
| 4 | +23.17 | 1.1118 | 321 15 | 1.2779 | 110 16 | 0.8874 | 835 |
| 5 | 23.28 | 1.1133 | 321 19 | 1.2775 | 109 14 | 0.8898 | 872 |
| 6 | 23.38 | 1.1148 | 321 24 | 1.2771 | 108 12 | 0.8921 | 909 |
| 7 | 23.49 | 1.1163 | 321 28 | 1.2767 | 107 9 | 0.8942 | 945 |
| 8 | 23.59 | 1.1177 | 321 33 | 1.2763 | 106 6 | 0.8962 | 982 |
| 9 | +23.70 | 1.1191 | 321 37 | 1.2760 | 105 4 | 0.8981 | 018 |
| 10 | 23.80 | 1.1205 | 321 42 | 1.2757 | 104 1 | 0.8999 | 055 |
| 11 | 23.90 | 1.1219 | 321 46 | 1.2754 | 102 58 | 0.9015 | 092 |
| 12 | 24.00 | 1.1233 | 321 51 | 1.2751 | 101 54 | 0.9030 | 128 |
| 13 | 24.10 | 1.1246 | 321 55 | 1.2749 | 100 51 | 0.9044 | 165 |
| 14 | +24.20 | 1.1259 | 322 0 | 1.2747 | 99 48 | 0.9056 | 201 |
| 15 | 24.30 | 1.1272 | 322 5 | 1.2745 | 98 44 | 0.9067 | 238 |
| 16 | 24.40 | 1.1285 | 322 10 | 1.2743 | 97 41 | 0.9077 | 275 |

## Konstanten für die mittleren Tage 1911,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

| 12h Mittl. Zeit | f | log. g | G | log. h | H | log. i | ☾ |
|---|---|---|---|---|---|---|---|
| Sept. 16 | +24.40" | 1.1285 | 322° 10' | 1.2743 | 97° 41' | 0.9077 | 275 |
| 17 | 24.50 | 1.1298 | 322 15 | 1.2741 | 96 37 | 0.9085 | 311 |
| 18 | 24.60 | 1.1310 | 322 20 | 1.2740 | 95 33 | 0.9092 | 348 |
| 19 | 24.70 | 1.1323 | 322 25 | 1.2739 | 94 29 | 0.9098 | 384 |
| 20 | 24.79 | 1.1335 | 322 31 | 1.2738 | 93 25 | 0.9103 | 421 |
| 21 | +24.89 | 1.1347 | 322 36 | 1.2737 | 92 22 | 0.9106 | 458 |
| 22 | 24.98 | 1.1359 | 322 42 | 1.2737 | 91 18 | 0.9109 | 494 |
| 23 | 25.08 | 1.1371 | 322 47 | 1.2737 | 90 14 | 0.9110 | 531 |
| 24 | 25.18 | 1.1383 | 322 53 | 1.2737 | 89 10 | 0.9109 | 567 |
| 25 | 25.28 | 1.1394 | 322 58 | 1.2737 | 88 5 | 0.9108 | 604 |
| 26 | +25.38 | 1.1406 | 323 4 | 1.2738 | 87 1 | 0.9105 | 641 |
| 27 | 25.48 | 1.1417 | 323 10 | 1.2738 | 85 57 | 0.9100 | 677 |
| 28 | 25.58 | 1.1428 | 323 16 | 1.2739 | 84 53 | 0.9095 | 714 |
| 29 | 25.68 | 1.1439 | 323 22 | 1.2741 | 83 49 | 0.9088 | 750 |
| 30 | 25.78 | 1.1450 | 323 29 | 1.2742 | 82 45 | 0.9080 | 787 |
| Okt. 1 | +25.88 | 1.1461 | 323 35 | 1.2744 | 81 40 | 0.9071 | 824 |
| 2 | 25.98 | 1.1471 | 323 42 | 1.2746 | 80 36 | 0.9060 | 860 |
| 3 | 26.08 | 1.1481 | 323 49 | 1.2748 | 79 32 | 0.9048 | 897 |
| 4 | 26.18 | 1.1492 | 323 56 | 1.2751 | 78 28 | 0.9035 | 933 |
| 5 | 26.28 | 1.1502 | 324 3 | 1.2753 | 77 24 | 0.9020 | 970 |
| 6 | +26.38 | 1.1513 | 324 10 | 1.2756 | 76 20 | 0.9004 | 007 |
| 7 | 26.48 | 1.1523 | 324 17 | 1.2759 | 75 16 | 0.8987 | 043 |
| 8 | 26.58 | 1.1534 | 324 24 | 1.2762 | 74 12 | 0.8968 | 080 |
| 9 | 26.68 | 1.1544 | 324 31 | 1.2766 | 73 9 | 0.8948 | 116 |
| 10 | 26.79 | 1.1554 | 324 39 | 1.2770 | 72 5 | 0.8926 | 153 |
| 11 | +26.89 | 1.1564 | 324 46 | 1.2774 | 71 1 | 0.8903 | 190 |
| 12 | 27.00 | 1.1575 | 324 54 | 1.2778 | 69 58 | 0.8879 | 226 |
| 13 | 27.11 | 1.1585 | 325 2 | 1.2782 | 68 54 | 0.8853 | 263 |
| 14 | 27.22 | 1.1595 | 325 10 | 1.2786 | 67 51 | 0.8826 | 299 |
| 15 | 27.33 | 1.1605 | 325 18 | 1.2791 | 66 47 | 0.8797 | 336 |
| 16 | +27.44 | 1.1615 | 325 26 | 1.2796 | 65 44 | 0.8767 | 373 |
| 17 | 27.55 | 1.1626 | 325 34 | 1.2801 | 64 41 | 0.8735 | 409 |
| 18 | 27.66 | 1.1636 | 325 43 | 1.2806 | 63 38 | 0.8701 | 446 |
| 19 | 27.77 | 1.1646 | 325 51 | 1.2811 | 62 35 | 0.8666 | 482 |
| 20 | 27.89 | 1.1656 | 326 0 | 1.2816 | 61 32 | 0.8630 | 519 |
| 21 | +28.00 | 1.1666 | 326 9 | 1.2822 | 60 30 | 0.8591 | 556 |
| 22 | 28.12 | 1.1677 | 326 18 | 1.2828 | 59 27 | 0.8551 | 592 |
| 23 | 28.24 | 1.1687 | 326 27 | 1.2833 | 58 25 | 0.8509 | 629 |

## Konstanten für die mittleren Tage 1911,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

| 12ʰ Mittl. Zeit | f | log. g | G | log. h | H | log. i | ☾ |
|---|---|---|---|---|---|---|---|
| Okt. 23 | +28.24 | 1.1687 | 326° 27′ | 1.2833 | 58° 25′ | 0.8509 | 629 |
| 24 | 28.36 | 1.1698 | 326 36 | 1.2839 | 57 22 | 0.8466 | 665 |
| 25 | 28.48 | 1.1709 | 326 45 | 1.2845 | 56 20 | 0.8421 | 702 |
| 26 | 28.60 | 1.1720 | 326 55 | 1.2851 | 55 18 | 0.8374 | 739 |
| 27 | 28.72 | 1.1731 | 327 4 | 1.2857 | 54 16 | 0.8325 | 775 |
| 28 | +28.85 | 1.1742 | 327 14 | 1.2863 | 53 15 | 0.8274 | 812 |
| 29 | 28.97 | 1.1753 | 327 23 | 1.2870 | 52 13 | 0.8221 | 848 |
| 30 | 29.10 | 1.1765 | 327 33 | 1.2876 | 51 12 | 0.8166 | 885 |
| 31 | 29.23 | 1.1776 | 327 42 | 1.2883 | 50 10 | 0.8109 | 922 |
| Nov. 1 | 29.36 | 1.1788 | 327 52 | 1.2889 | 49 9 | 0.8050 | 958 |
| 2 | +29.49 | 1.1799 | 328 2 | 1.2895 | 48 8 | 0.7988 | 995 |
| 3 | 29.62 | 1.1811 | 328 12 | 1.2902 | 47 8 | 0.7925 | 031 |
| 4 | 29.75 | 1.1823 | 328 21 | 1.2909 | 46 7 | 0.7859 | 068 |
| 5 | 29.89 | 1.1835 | 328 31 | 1.2915 | 45 6 | 0.7791 | 105 |
| 6 | 30.03 | 1.1847 | 328 41 | 1.2922 | 44 6 | 0.7720 | 141 |
| 7 | +30.17 | 1.1860 | 328 51 | 1.2928 | 43 6 | 0.7647 | 178 |
| 8 | 30.31 | 1.1872 | 329 1 | 1.2935 | 42 6 | 0.7571 | 214 |
| 9 | 30.45 | 1.1885 | 329 11 | 1.2941 | 41 6 | 0.7492 | 251 |
| 10 | 30.59 | 1.1898 | 329 21 | 1.2948 | 40 6 | 0.7410 | 288 |
| 11 | 30.74 | 1.1911 | 329 31 | 1.2954 | 39 7 | 0.7326 | 324 |
| 12 | +30.88 | 1.1924 | 329 41 | 1.2961 | 38 7 | 0.7238 | 361 |
| 13 | 31.03 | 1.1937 | 329 51 | 1.2967 | 37 8 | 0.7148 | 397 |
| 14 | 31.18 | 1.1950 | 330 1 | 1.2974 | 36 9 | 0.7053 | 434 |
| 15 | 31.33 | 1.1964 | 330 11 | 1.2980 | 35 10 | 0.6956 | 471 |
| 16 | 31.48 | 1.1978 | 330 21 | 1.2986 | 34 11 | 0.6854 | 507 |
| 17 | +31.63 | 1.1992 | 330 31 | 1.2992 | 33 12 | 0.6749 | 544 |
| 18 | 31.78 | 1.2006 | 330 41 | 1.2998 | 32 13 | 0.6640 | 580 |
| 19 | 31.94 | 1.2020 | 330 51 | 1.3004 | 31 15 | 0.6526 | 617 |
| 20 | 32.10 | 1.2034 | 331 1 | 1.3010 | 30 17 | 0.6408 | 654 |
| 21 | 32.26 | 1.2049 | 331 10 | 1.3015 | 29 18 | 0.6285 | 690 |
| 22 | +32.42 | 1.2064 | 331 20 | 1.3021 | 28 20 | 0.6158 | 727 |
| 23 | 32.58 | 1.2079 | 331 29 | 1.3027 | 27 22 | 0.6025 | 763 |
| 24 | 32.74 | 1.2094 | 331 39 | 1.3032 | 26 24 | 0.5886 | 800 |
| 25 | 32.91 | 1.2109 | 331 48 | 1.3037 | 25 27 | 0.5741 | 837 |
| 26 | 33.07 | 1.2125 | 331 58 | 1.3042 | 24 29 | 0.5590 | 873 |
| 27 | +33.24 | 1.2140 | 332 7 | 1.3047 | 23 32 | 0.5432 | 910 |
| 28 | 33.41 | 1.2156 | 332 16 | 1.3052 | 22 34 | 0.5266 | 946 |
| 29 | 33.58 | 1.2172 | 332 25 | 1.3056 | 21 37 | 0.5093 | 983 |

# Konstanten für die mittleren Tage 1911,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

| 12h Mittl. Zeit | f | log. g | G | log. h | H | log. i | ☾ |
|---|---|---|---|---|---|---|---|
| Nov. 29 | +33.58″ | 1.2172 | 332° 25′ | 1.3056 | 21° 37′ | 0.5093 | 983 |
| 30 | 33.75 | 1.2188 | 332 34 | 1.3061 | 20 40 | 0.4910 | 020 |
| Dez. 1 | 33.92 | 1.2204 | 332 43 | 1.3065 | 19 43 | 0.4719 | 056 |
| 2 | 34.09 | 1.2220 | 332 52 | 1.3069 | 18 46 | 0.4516 | 093 |
| 3 | 34.26 | 1.2237 | 333 0 | 1.3073 | 17 49 | 0.4303 | 129 |
| 4 | +34.43 | 1.2253 | 333 9 | 1.3077 | 16 52 | 0.4077 | 166 |
| 5 | 34.61 | 1.2270 | 333 17 | 1.3081 | 15 56 | 0.3837 | 203 |
| 6 | 34.78 | 1.2286 | 333 25 | 1.3084 | 14 59 | 0.3582 | 239 |
| 7 | 34.96 | 1.2303 | 333 33 | 1.3087 | 14 2 | 0.3309 | 276 |
| 8 | 35.14 | 1.2320 | 333 41 | 1.3090 | 13 6 | 0.3016 | 312 |
| 9 | +35.32 | 1.2337 | 333 49 | 1.3093 | 12 9 | 0.2700 | 349 |
| 10 | 35.50 | 1.2354 | 333 57 | 1.3096 | 11 13 | 0.2358 | 386 |
| 11 | 35.68 | 1.2371 | 334 4 | 1.3098 | 10 17 | 0.1986 | 422 |
| 12 | 35.86 | 1.2389 | 334 12 | 1.3100 | 9 20 | 0.1576 | 459 |
| 13 | 36.04 | 1.2406 | 334 19 | 1.3102 | 8 24 | 0.1123 | 495 |
| 14 | +36.22 | 1.2424 | 334 26 | 1.3104 | 7 28 | 0.0615 | 532 |
| 15 | 36.40 | 1.2441 | 334 33 | 1.3106 | 6 32 | 0.0038 | 569 |
| 16 | 36.58 | 1.2459 | 334 39 | 1.3107 | 5 36 | 9.9371 | 605 |
| 17 | 36.76 | 1.2476 | 334 46 | 1.3109 | 4 39 | 9.8579 | 642 |
| 18 | 36.94 | 1.2494 | 334 52 | 1.3110 | 3 43 | 9.7610 | 678 |
| 19 | +37.12 | 1.2511 | 334 58 | 1.3110 | 2 47 | 9.6357 | 715 |
| 20 | 37.31 | 1.2529 | 335 4 | 1.3111 | 1 51 | 9.4588 | 752 |
| 21 | 37.49 | 1.2547 | 335 10 | 1.3111 | 0 55 | 9.1550 | 788 |
| 22 | 37.67 | 1.2565 | 335 16 | 1.3111 | 359 59 | $7.2787_n$ | 825 |
| 23 | 37.85 | 1.2582 | 335 21 | 1.3111 | 359 3 | $9.1667_n$ | 862 |
| 24 | +38.04 | 1.2600 | 335 27 | 1.3111 | 358 7 | $9.4648_n$ | 898 |
| 25 | 38.22 | 1.2618 | 335 32 | 1.3110 | 357 11 | $9.6399_n$ | 935 |
| 26 | 38.40 | 1.2636 | 335 37 | 1.3109 | 356 15 | $9.7642_n$ | 971 |
| 27 | 38.59 | 1.2654 | 335 42 | 1.3108 | 355 19 | $9.8606_n$ | 008 |
| 28 | 38.77 | 1.2672 | 335 47 | 1.3107 | 354 23 | $9.9393_n$ | 045 |
| 29 | +38.95 | 1.2689 | 335 52 | 1.3106 | 353 26 | $0.0059_n$ | 081 |
| 30 | 39.13 | 1.2707 | 335 57 | 1.3104 | 352 30 | $0.0634_n$ | 118 |
| 31 | 39.31 | 1.2724 | 336 1 | 1.3102 | 351 34 | $0.1141_n$ | 154 |
| 32 | 39.49 | 1.2742 | 336 5 | 1.3100 | 350 37 | $0.1594_n$ | 191 |
| 33 | 39.67 | 1.2759 | 336 9 | 1.3098 | 349 41 | $0.2002_n$ | 228 |
| 34 | +39.85 | 1.2777 | 336 13 | 1.3096 | 348 44 | $0.2375_n$ | 264 |
| 35 | 40.03 | 1.2794 | 336 16 | 1.3093 | 347 48 | $0.2716_n$ | 301 |
| 36 | 40.21 | 1.2812 | 336 20 | 1.3090 | 346 51 | $0.3032_n$ | 337 |

## Konstanten zur Berücksichtigung der Nutationsglieder von kurzer Periode für 1911.

| ☾ | log. $A'$ | log. $B'$ | $f'$ | log. $g'$ | $G'$ | ☾ | log. $A'$ | log. $B'$ | $f'$ | log. $g'$ | $G'$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ″ | | ° | | | | ″ | | ° |
| 000 | $7.124_n$ | $8.946_n$ | −0.06 | 8.965 | 253.2 | 350 | 7.679 | 8.436 | +0.22 | 8.998 | 15.9 |
| 010 | $7.261_n$ | $8.943_n$ | −0.08 | 8.978 | 247.4 | 360 | 7.696 | 8.219 | +0.23 | 9.003 | 9.4 |
| 020 | $7.362_n$ | $8.933_n$ | −0.11 | 8.988 | 241.7 | 370 | 7.706 | 7.744 | +0.24 | 9.008 | 3.1 |
| 030 | $7.441_n$ | $8.915_n$ | −0.13 | 8.996 | 236.0 | 380 | 7.710 | $7.744_n$ | +0.24 | 9.013 | 356.9 |
| 040 | $7.504_n$ | $8.889_n$ | −0.15 | 9.002 | 230.4 | 390 | 7.709 | $8.219_n$ | +0.24 | 9.016 | 350.8 |
| 050 | $7.555_n$ | $8.854_n$ | −0.17 | 9.006 | 224.8 | 400 | 7.702 | $8.436_n$ | +0.23 | 9.019 | 344.8 |
| 060 | $7.596_n$ | $8.809_n$ | −0.18 | 9.008 | 219.2 | 410 | 7.689 | $8.576_n$ | +0.22 | 9.020 | 339.0 |
| 070 | $7.628_n$ | $8.751_n$ | −0.20 | 9.009 | 213.5 | 420 | 7.669 | $8.675_n$ | +0.21 | 9.021 | 333.2 |
| 080 | $7.653_n$ | $8.675_n$ | −0.21 | 9.008 | 207.7 | 430 | 7.643 | $8.751_n$ | +0.20 | 9.020 | 327.4 |
| 090 | $7.671_n$ | $8.576_n$ | −0.22 | 9.005 | 201.8 | 440 | 7.610 | $8.809_n$ | +0.19 | 9.017 | 321.7 |
| 100 | $7.683_n$ | $8.436_n$ | −0.22 | 9.002 | 195.8 | 450 | 7.568 | $8.854_n$ | +0.17 | 9.013 | 316.0 |
| 110 | $7.689_n$ | $8.219_n$ | −0.22 | 8.997 | 189.6 | 460 | 7.516 | $8.889_n$ | +0.15 | 9.007 | 310.3 |
| 120 | $7.689_n$ | $7.744_n$ | −0.22 | 8.991 | 183.2 | 470 | 7.452 | $8.915_n$ | +0.13 | 8.999 | 304.6 |
| 130 | $7.683_n$ | 7.744 | −0.22 | 8.985 | 176.7 | 480 | 7.371 | $8.933_n$ | +0.11 | 8.990 | 298.8 |
| 140 | $7.671_n$ | 8.219 | −0.22 | 8.979 | 170.0 | 490 | 7.266 | $8.943_n$ | +0.09 | 8.979 | 292.9 |
| 150 | $7.652_n$ | 8.436 | −0.21 | 8.973 | 163.1 | 500 | 7.124 | $8.946_n$ | +0.06 | 8.965 | 286.8 |
| 160 | $7.626_n$ | 8.576 | −0.20 | 8.967 | 156.0 | 510 | 6.908 | $8.943_n$ | +0.04 | 8.950 | 280.5 |
| 170 | $7.591_n$ | 8.675 | −0.18 | 8.961 | 148.8 | 520 | 6.472 | $8.933_n$ | +0.01 | 8.934 | 274.0 |
| 180 | $7.547_n$ | 8.751 | −0.16 | 8.956 | 141.4 | 530 | $6.336_n$ | $8.915_n$ | −0.01 | 8.916 | 267.0 |
| 190 | $7.490_n$ | 8.809 | −0.14 | 8.951 | 133.9 | 540 | $6.849_n$ | $8.889_n$ | −0.03 | 8.896 | 259.7 |
| 200 | $7.418_n$ | 8.854 | −0.12 | 8.948 | 126.3 | 550 | $7.068_n$ | $8.854_n$ | −0.05 | 8.876 | 251.9 |
| 210 | $7.323_n$ | 8.889 | −0.10 | 8.946 | 118.6 | 560 | $7.204_n$ | $8.809_n$ | −0.07 | 8.857 | 243.6 |
| 220 | $7.194_n$ | 8.915 | −0.07 | 8.944 | 110.8 | 570 | $7.299_n$ | $8.751_n$ | −0.09 | 8.839 | 234.7 |
| 230 | $6.998_n$ | 8.933 | −0.05 | 8.944 | 103.1 | 580 | $7.369_n$ | $8.675_n$ | −0.11 | 8.824 | 225.3 |
| 240 | $6.614_n$ | 8.943 | −0.02 | 8.945 | 95.4 | 590 | $7.421_n$ | $8.576_n$ | −0.12 | 8.812 | 215.5 |
| 250 | 6.255 | 8.946 | +0.01 | 8.947 | 87.7 | 600 | $7.459_n$ | $8.436_n$ | −0.13 | 8.805 | 205.4 |
| 260 | 6.887 | 8.943 | +0.04 | 8.949 | 80.0 | 610 | $7.486_n$ | $8.219_n$ | −0.14 | 8.804 | 195.1 |
| 270 | 7.131 | 8.933 | +0.06 | 8.953 | 72.4 | 620 | $7.504_n$ | $7.744_n$ | −0.15 | 8.808 | 184.9 |
| 280 | 7.282 | 8.915 | +0.09 | 8.958 | 65.0 | 630 | $7.513_n$ | 7.744 | −0.15 | 8.817 | 175.1 |
| 290 | 7.390 | 8.889 | +0.11 | 8.963 | 57.6 | 640 | $7.514_n$ | 8.219 | −0.15 | 8.829 | 165.8 |
| 300 | 7.471 | 8.854 | +0.14 | 8.968 | 50.3 | 650 | $7.507_n$ | 8.436 | −0.15 | 8.845 | 157.0 |
| 310 | 7.535 | 8.809 | +0.16 | 8.974 | 43.2 | 660 | $7.491_n$ | 8.576 | −0.14 | 8.861 | 148.8 |
| 320 | 7.585 | 8.751 | +0.18 | 8.980 | 36.2 | 670 | $7.467_n$ | 8.675 | −0.13 | 8.878 | 141.1 |
| 330 | 7.625 | 8.675 | +0.19 | 8.986 | 29.3 | 680 | $7.434_n$ | 8.751 | −0.12 | 8.894 | 134.0 |
| 340 | 7.656 | 8.576 | +0.21 | 8.992 | 22.5 | 690 | $7.389_n$ | 8.809 | −0.11 | 8.908 | 127.3 |
| 350 | 7.679 | 8.436 | +0.22 | 8.998 | 15.9 | 700 | $7.330_n$ | 8.854 | −0.10 | 8.921 | 120.9 |

## Konstanten zur Berücksichtigung der Nutationsglieder von kurzer Periode für 1911.

| ☾ | log. $A'$ | log. $B'$ | $f'$ | log. $g'$ | $G'$ | ☾ | log. $A'$ | log. $B'$ | $f'$ | log. $g'$ | $G'$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | $7.330_n$ | 8.854 | −0″.10 | 8.921 | 120°.9 | 850 | 7.465 | 8.436 | +0″.13 | 8.810 | 25°.0 |
| 710 | $7.253_n$ | 8.889 | −0.08 | 8.931 | 114.9 | 860 | 7.475 | 8.219 | +0.14 | 8.793 | 15.5 |
| 720 | $7.151_n$ | 8.915 | −0.07 | 8.939 | 109.1 | 870 | 7.476 | 7.744 | +0.14 | 8.780 | 5.3 |
| 730 | $7.008_n$ | 8.933 | −0.05 | 8.945 | 103.4 | 880 | 7.469 | $7.744_n$ | +0.14 | 8.773 | 354.6 |
| 740 | $6.780_n$ | 8.943 | −0.02 | 8.947 | 97.8 | 890 | 7.452 | $8.219_n$ | +0.13 | 8.772 | 343.7 |
| 750 | $6.255_n$ | 8.946 | −0.01 | 8.947 | 92.3 | 900 | 7.421 | $8.436_n$ | +0.12 | 8.778 | 332.9 |
| 760 | 6.387 | 8.943 | +0.01 | 8.944 | 86.8 | 910 | 7.388 | $8.576_n$ | +0.11 | 8.791 | 322.4 |
| 770 | 6.820 | 8.933 | +0.03 | 8.938 | 81.2 | 920 | 7.335 | $8.675_n$ | +0.10 | 8.808 | 312.5 |
| 780 | 7.027 | 8.915 | +0.05 | 8.929 | 75.5 | 930 | 7.264 | $8.751_n$ | +0.09 | 8.828 | 303.2 |
| 790 | 7.160 | 8.889 | +0.07 | 8.918 | 69.5 | 940 | 7.166 | $8.809_n$ | +0.07 | 8.850 | 294.5 |
| 800 | 7.254 | 8.854 | +0.08 | 8.904 | 63.3 | 950 | 7.024 | $8.854_n$ | +0.05 | 8.873 | 286.5 |
| 810 | 7.325 | 8.809 | +0.10 | 8.887 | 56.7 | 960 | 6.790 | $8.889_n$ | +0.03 | 8.895 | 279.1 |
| 820 | 7.378 | 8.751 | +0.11 | 8.869 | 49.7 | 970 | 6.173 | $8.915_n$ | +0.01 | 8.915 | 272.1 |
| 830 | 7.418 | 8.675 | +0.12 | 8.849 | 42.1 | 980 | $6.526_n$ | $8.933_n$ | −0.02 | 8.934 | 265.5 |
| 840 | 7.447 | 8.576 | +0.13 | 8.829 | 33.9 | 990 | $6.920_n$ | $8.943_n$ | −0.04 | 8.951 | 259.2 |
| 850 | 7.465 | 8.436 | +0.13 | 8.810 | 25.0 | 000 | $7.124_n$ | $8.946_n$ | −0.06 | 8.965 | 253.2 |

## Korrektion der Schiefe der Ekliptik für die Glieder von kurzer Periode.

| Argument ☾ | | Δε | Argument ☾ | | Δε | Argument ☾ | | Δε |
|---|---|---|---|---|---|---|---|---|
| 000 | 500 | +0″.09 | 200 | 700 | −0″.07 | 400 | 900 | +0″.03 |
| 020 | 520 | +0.09 | 220 | 720 | −0.08 | 420 | 920 | +0.05 |
| 040 | 540 | +0.08 | 240 | 740 | −0.09 | 440 | 940 | +0.07 |
| 060 | 560 | +0.07 | 260 | 760 | −0.09 | 460 | 960 | +0.08 |
| 080 | 580 | +0.05 | 280 | 780 | −0.08 | 480 | 980 | +0.09 |
| 100 | 600 | +0.03 | 300 | 800 | −0.07 | 500 | 000 | +0.09 |
| 120 | 620 | +0.01 | 320 | 820 | −0.06 | | | |
| 140 | 640 | −0.02 | 340 | 840 | −0.04 | | | |
| 160 | 660 | −0.04 | 360 | 860 | −0.02 | | | |
| 180 | 680 | −0.06 | 380 | 880 | +0.01 | | | |
| 200 | 700 | −0.07 | 400 | 900 | +0.03 | | | |

# Konstanten für die Sterntage 1911,

gültig für die Sternzeitepochen $19^h\ 1^m.4$ Berlin.

| Datum in Mittl. Zeit | $t$ | log. $A$ | log. $B$ | log. $C$ | log. $D$ | $C$ |
|---|---|---|---|---|---|---|
| Jan. 1.015 | 0.0000 | $9.3677_n$ | $0.7608_n$ | $0.5115_n$ | 1.3045 | −3.247 |
| 2.012 | 0.0027 | $9.3589_n$ | $0.7644_n$ | $0.5533_n$ | 1.3031 | 3.575 |
| 3.009 | 0.0055 | $9.3515_n$ | $0.7683_n$ | $0.5912_n$ | 1.3015 | 3.902 |
| 4.007 | 0.0082 | $9.3455_n$ | $0.7722_n$ | $0.6260_n$ | 1.2998 | 4.227 |
| 5.004 | 0.0109 | $9.3406_n$ | $0.7753_n$ | $0.6581_n$ | 1.2980 | 4.551 |
| 6.001 | 0.0136 | $9.3364_n$ | $0.7772_n$ | $0.6878_n$ | 1.2960 | −4.873 |
| 6.998 | 0.0164 | $9.3321_n$ | $0.7778_n$ | $0.7155_n$ | 1.2938 | 5.194 |
| 7.996 | 0.0191 | $9.3271_n$ | $0.7773_n$ | $0.7414_n$ | 1.2915 | 5.513 |
| 8.993 | 0.0218 | $9.3206_n$ | $0.7760_n$ | $0.7657_n$ | 1.2891 | 5.831 |
| 9.990 | 0.0246 | $9.3122_n$ | $0.7743_n$ | $0.7886_n$ | 1.2865 | 6.147 |
| 10.988 | 0.0273 | $9.3019_n$ | $0.7730_n$ | $0.8103_n$ | 1.2838 | −6.461 |
| 11.985 | 0.0300 | $9.2900_n$ | $0.7726_n$ | $0.8307_n$ | 1.2809 | |
| 12.982 | 0.0328 | $9.2771_n$ | $0.7734_n$ | $0.8501_n$ | 1.2778 | |
| 13.979 | 0.0355 | $9.2639_n$ | $0.7756_n$ | $0.8686_n$ | 1.2746 | |
| 14.977 | 0.0382 | $9.2514_n$ | $0.7790_n$ | $0.8862_n$ | 1.2712 | |
| 15.974 | 0.0410 | $9.2404_n$ | $0.7831_n$ | $0.9029_n$ | 1.2677 | |
| 16.971 | 0.0437 | $9.2315_n$ | $0.7875_n$ | $0.9189_n$ | 1.2640 | |
| 17.968 | 0.0464 | $9.2246_n$ | $0.7915_n$ | $0.9342_n$ | 1.2601 | |
| 18.966 | 0.0491 | $9.2196_n$ | $0.7946_n$ | $0.9488_n$ | 1.2561 | |
| 19.963 | 0.0519 | $9.2155_n$ | $0.7966_n$ | $0.9628_n$ | 1.2518 | |
| 20.960 | 0.0546 | $9.2115_n$ | $0.7973_n$ | $0.9763_n$ | 1.2474 | |
| 21.958 | 0.0573 | $9.2064_n$ | $0.7969_n$ | $0.9892_n$ | 1.2428 | |
| 22.955 | 0.0601 | $9.1994_n$ | $0.7959_n$ | $1.0016_n$ | 1.2381 | |
| 23.952 | 0.0628 | $9.1903_n$ | $0.7948_n$ | $1.0135_n$ | 1.2331 | |
| 24.949 | 0.0655 | $9.1788_n$ | $0.7941_n$ | $1.0250_n$ | 1.2280 | |
| 25.947 | 0.0683 | $9.1654_n$ | $0.7944_n$ | $1.0360_n$ | 1.2226 | |
| 26.944 | 0.0710 | $9.1508_n$ | $0.7959_n$ | $1.0467_n$ | 1.2171 | |
| 27.941 | 0.0737 | $9.1360_n$ | $0.7987_n$ | $1.0569_n$ | 1.2113 | |
| 28.938 | 0.0764 | $9.1224_n$ | $0.8025_n$ | $1.0668_n$ | 1.2053 | |
| 29.936 | 0.0792 | $9.1106_n$ | $0.8068_n$ | $1.0763_n$ | 1.1991 | |
| 30.933 | 0.0819 | $9.1014_n$ | $0.8112_n$ | $1.0855_n$ | 1.1927 | |
| 31.930 | 0.0846 | $9.0946_n$ | $0.8150_n$ | $1.0943_n$ | 1.1861 | |
| Febr. 1.927 | 0.0874 | $9.0892_n$ | $0.8179_n$ | $1.1029_n$ | 1.1792 | |
| 2.925 | 0.0901 | $9.0844_n$ | $0.8195_n$ | $1.1111_n$ | 1.1720 | |
| 3.922 | 0.0928 | $9.0788_n$ | $0.8200_n$ | $1.1190_n$ | 1.1646 | |
| 4.919 | 0.0956 | $9.0714_n$ | $0.8196_n$ | $1.1267_n$ | 1.1570 | |
| 5.917 | 0.0983 | $9.0603_n$ | $0.8187_n$ | $1.1341_n$ | 1.1491 | |
| 6.914 | 0.1010 | $9.0461_n$ | $0.8178_n$ | $1.1413_n$ | 1.1408 | |

$E = -0.03$

## Konstanten für die Sterntage 1911,

gültig für die Sternzeitepochen $19^h\ 1^m.4$ Berlin.

| Datum in Mittl. Zeit | $t$ | log. $A$ | log. $B$ | log. $C$ | log. $D$ | $D$ |
|---|---|---|---|---|---|---|
| Febr. 6.914 | 0.1010 | $9.0461_n$ | $0.8178_n$ | $1.1413_n$ | 1.1408 | |
| 7.911 | 0.1038 | $9.0284_n$ | $0.8175_n$ | $1.1482_n$ | 1.1323 | |
| 8.908 | 0.1065 | $9.0082_n$ | $0.8181_n$ | $1.1548_n$ | 1.1235 | |
| 9.906 | 0.1092 | $8.9865_n$ | $0.8200_n$ | $1.1612_n$ | 1.1144 | |
| 10.903 | 0.1120 | $8.9653_n$ | $0.8229_n$ | $1.1674_n$ | 1.1050 | |
| 11.900 | 0.1147 | $8.9462_n$ | $0.8267_n$ | $1.1734_n$ | 1.0952 | |
| 12.897 | 0.1174 | $8.9307_n$ | $0.8309_n$ | $1.1791_n$ | 1.0850 | |
| 13.895 | 0.1201 | $8.9194_n$ | $0.8348_n$ | $1.1847_n$ | 1.0745 | |
| 14.892 | 0.1229 | $8.9122_n$ | $0.8381_n$ | $1.1900_n$ | 1.0635 | |
| 15.889 | 0.1256 | $8.9076_n$ | $0.8404_n$ | $1.1951_n$ | 1.0522 | |
| 16.887 | 0.1283 | $8.9041_n$ | $0.8416_n$ | $1.2001_n$ | 1.0404 | |
| 17.884 | 0.1311 | $8.8993_n$ | $0.8416_n$ | $1.2048_n$ | 1.0282 | |
| 18.881 | 0.1338 | $8.8915_n$ | $0.8409_n$ | $1.2094_n$ | 1.0154 | |
| 19.878 | 0.1365 | $8.8791_n$ | $0.8398_n$ | $1.2138_n$ | 1.0022 | |
| 20.876 | 0.1393 | $8.8619_n$ | $0.8388_n$ | $1.2180_n$ | 0.9884 | |
| 21.873 | 0.1420 | $8.8402_n$ | $0.8386_n$ | $1.2220_n$ | 0.9740 | |
| 22.870 | 0.1447 | $8.8146_n$ | $0.8393_n$ | $1.2259_n$ | 0.9590 | |
| 23.867 | 0.1474 | $8.7873_n$ | $0.8411_n$ | $1.2296_n$ | 0.9433 | |
| 24.865 | 0.1502 | $8.7606_n$ | $0.8439_n$ | $1.2331_n$ | 0.9269 | |
| 25.862 | 0.1529 | $8.7373_n$ | $0.8474_n$ | $1.2365_n$ | 0.9098 | |
| 26.859 | 0.1556 | $8.7193_n$ | $0.8511_n$ | $1.2397_n$ | 0.8918 | |
| 27.856 | 0.1584 | $8.7071_n$ | $0.8545_n$ | $1.2427_n$ | 0.8729 | |
| 28.854 | 0.1611 | $8.6997_n$ | $0.8571_n$ | $1.2456_n$ | 0.8530 | |
| März 1.851 | 0.1638 | $8.6946_n$ | $0.8586_n$ | $1.2482_n$ | 0.8320 | |
| 2.848 | 0.1666 | $8.6888_n$ | $0.8590_n$ | $1.2509_n$ | 0.8098 | +6.454 |
| 3.846 | 0.1693 | $8.6787_n$ | $0.8584_n$ | $1.2534_n$ | 0.7863 | +6.114 |
| 4.843 | 0.1720 | $8.6621_n$ | $0.8571_n$ | $1.2557_n$ | 0.7614 | 5.773 |
| 5.840 | 0.1747 | $8.6362_n$ | $0.8557_n$ | $1.2578_n$ | 0.7347 | 5.429 |
| 6.837 | 0.1775 | $8.5997_n$ | $0.8545_n$ | $1.2598_n$ | 0.7063 | 5.085 |
| 7.835 | 0.1802 | $8.5531_n$ | $0.8541_n$ | $1.2617_n$ | 0.6757 | 4.739 |
| 8.832 | 0.1829 | $8.4972_n$ | $0.8547_n$ | $1.2634_n$ | 0.6426 | +4.392 |
| 9.829 | 0.1857 | $8.4352_n$ | $0.8563_n$ | $1.2650_n$ | 0.6067 | 4.043 |
| 10.826 | 0.1884 | $8.3729_n$ | $0.8588_n$ | $1.2665_n$ | 0.5675 | 3.694 |
| 11.824 | 0.1911 | $8.3164_n$ | $0.8619_n$ | $1.2678_n$ | 0.5242 | 3.343 |
| 12.821 | 0.1939 | $8.2728_n$ | $0.8649_n$ | $1.2690_n$ | 0.4760 | 2.992 |
| 13.818 | 0.1966 | $8.2462_n$ | $0.8675_n$ | $1.2700_n$ | 0.4217 | +2.641 |
| 14.816 | 0.1993 | $8.2338_n$ | $0.8692_n$ | $1.2709_n$ | 0.3595 | 2.288 |
| 15.813 | 0.2021 | $8.2297_n$ | $0.8699_n$ | $1.2717_n$ | 0.2867 | 1.935 |

$E = -0^s.03$

# Konstanten für die Sterntage 1911,

gültig für die Sternzeitepochen $19^h\ 1^m.4$ Berlin.

| Datum in Mittl. Zeit | $t$ | log. $A$ | log. $B$ | log. $C$ | log. $D$ | $D$ |
|---|---|---|---|---|---|---|
| März 15.813 | 0.2021 | $8.2297_n$ | $0.8699_n$ | $1.2717_n$ | 0.2867 | +1.935 |
| 16.810 | 0.2048 | $8.2230_n$ | $0.8695_n$ | $1.2724_n$ | 0.1992 | 1.582 |
| 17.807 | 0.2075 | $8.2038_n$ | $0.8682_n$ | $1.2729_n$ | 0.0893 | 1.228 |
| 18.805 | 0.2102 | $8.1638_n$ | $0.8663_n$ | $1.2733_n$ | 9.9418 | 0.874 |
| 19.802 | 0.2130 | $8.0920_n$ | $0.8644_n$ | $1.2735_n$ | 9.7165 | 0.521 |
| 20.799 | 0.2157 | $7.9736_n$ | $0.8629_n$ | $1.2737_n$ | 9.2223 | +0.167 |
| 21.796 | 0.2184 | $7.7752_n$ | $0.8623_n$ | $1.2737_n$ | $9.2714_n$ | −0.187 |
| 22.794 | 0.2212 | $7.3617_n$ | $0.8626_n$ | $1.2735_n$ | $9.7326_n$ | 0.540 |
| 23.791 | 0.2239 | 7.0719 | $0.8640_n$ | $1.2733_n$ | $9.9510_n$ | 0.893 |
| 24.788 | 0.2266 | 7.6180 | $0.8662_n$ | $1.2729_n$ | $0.0955_n$ | 1.246 |
| 25.785 | 0.2294 | 7.8069 | $0.8687_n$ | $1.2724_n$ | $0.2035_n$ | −1.598 |
| 26.783 | 0.2321 | 7.8971 | $0.8711_n$ | $1.2717_n$ | $0.2898_n$ | 1.949 |
| 27.780 | 0.2348 | 7.9400 | $0.8729_n$ | $1.2709_n$ | $0.3617_n$ | 2.300 |
| 28.777 | 0.2375 | 7.9628 | $0.8738_n$ | $1.2700_n$ | $0.4231_n$ | 2.649 |
| 29.775 | 0.2403 | 7.9814 | $0.8736_n$ | $1.2690_n$ | $0.4768_n$ | 2.998 |
| 30.772 | 0.2430 | 8.0141 | $0.8724_n$ | $1.2678_n$ | $0.5245_n$ | −3.346 |
| 31.769 | 0.2457 | 8.0693 | $0.8703_n$ | $1.2665_n$ | $0.5673_n$ | 3.692 |
| April 1.766 | 0.2485 | 8.1449 | $0.8679_n$ | $1.2651_n$ | $0.6061_n$ | 4.037 |
| 2.764 | 0.2512 | 8.2322 | $0.8656_n$ | $1.2635_n$ | $0.6416_n$ | 4.381 |
| 3.761 | 0.2539 | 8.3199 | $0.8638_n$ | $1.2618_n$ | $0.6742_n$ | 4.723 |
| 4.758 | 0.2567 | 8.4004 | $0.8629_n$ | $1.2600_n$ | $0.7045_n$ | −5.064 |
| 5.755 | 0.2594 | 8.4689 | $0.8631_n$ | $1.2580_n$ | $0.7326_n$ | 5.403 |
| 6.753 | 0.2621 | 8.5240 | $0.8642_n$ | $1.2559_n$ | $0.7589_n$ | 5.740 |
| 7.750 | 0.2649 | 8.5651 | $0.8660_n$ | $1.2537_n$ | $0.7836_n$ | 6.075 |
| 8.747 | 0.2676 | 8.5932 | $0.8681_n$ | $1.2513_n$ | $0.8068_n$ | 6.409 |
| 9.745 | 0.2703 | 8.6102 | $0.8698_n$ | $1.2488_n$ | $0.8286_n$ | |
| 10.742 | 0.2730 | 8.6197 | $0.8710_n$ | $1.2461_n$ | $0.8494_n$ | |
| 11.739 | 0.2758 | 8.6246 | $0.8711_n$ | $1.2433_n$ | $0.8690_n$ | |
| 12.736 | 0.2785 | 8.6286 | $0.8701_n$ | $1.2404_n$ | $0.8876_n$ | |
| 13.734 | 0.2812 | 8.6363 | $0.8682_n$ | $1.2373_n$ | $0.9054_n$ | |
| 14.731 | 0.2840 | 8.6498 | $0.8655_n$ | $1.2340_n$ | $0.9223_n$ | |
| 15.728 | 0.2867 | 8.6708 | $0.8626_n$ | $1.2307_n$ | $0.9385_n$ | |
| 16.725 | 0.2894 | 8.6977 | $0.8599_n$ | $1.2271_n$ | $0.9539_n$ | |
| 17.723 | 0.2922 | 8.7283 | $0.8580_n$ | $1.2234_n$ | $0.9687_n$ | |
| 18.720 | 0.2949 | 8.7594 | $0.8570_n$ | $1.2196_n$ | $0.9829_n$ | |
| 19.717 | 0.2976 | 8.7884 | $0.8571_n$ | $1.2156_n$ | $0.9965_n$ | |
| 20.715 | 0.3003 | 8.8131 | $0.8581_n$ | $1.2114_n$ | $1.0096_n$ | |
| 21.712 | 0.3031 | 8.8326 | $0.8597_n$ | $1.2071_n$ | $1.0221_n$ | |

$$E = -0''.03$$

## Konstanten für die Sterntage 1911,

gültig für die Sternzeitepochen $19^h\ 1^m.4$ Berlin.

| Datum in Mittl. Zeit | $t$ | log. $A$ | log. $B$ | log. $C$ | log. $D$ |
|---|---|---|---|---|---|
| April 21.712 | 0.3031 | 8.8326 | $0.8597_n$ | $1.2071_n$ | $1.0221_n$ |
| 22.709 | 0.3058 | 8.8467 | $0.8615_n$ | $1.2026_n$ | $1.0341_n$ |
| 23.706 | 0.3085 | 8.8559 | $0.8628_n$ | $1.1979_n$ | $1.0458_n$ |
| 24.704 | 0.3113 | 8.8622 | $0.8633_n$ | $1.1930_n$ | $1.0569_n$ |
| 25.701 | 0.3140 | 8.8673 | $0.8628_n$ | $1.1880_n$ | $1.0677_n$ |
| 26.698 | 0.3167 | 8.8737 | $0.8612_n$ | $1.1828_n$ | $1.0781_n$ |
| 27.695 | 0.3195 | 8.8829 | $0.8587_n$ | $1.1774_n$ | $1.0881_n$ |
| 28.693 | 0.3222 | 8.8966 | $0.8556_n$ | $1.1718_n$ | $1.0978_n$ |
| 29.690 | 0.3249 | 8.9146 | $0.8525_n$ | $1.1661_n$ | $1.1071_n$ |
| 30.687 | 0.3277 | 8.9362 | $0.8497_n$ | $1.1601_n$ | $1.1161_n$ |
| Mai 1.684 | 0.3304 | 8.9593 | $0.8478_n$ | $1.1539_n$ | $1.1248_n$ |
| 2.682 | 0.3331 | 8.9824 | $0.8469_n$ | $1.1475_n$ | $1.1332_n$ |
| 3.679 | 0.3358 | 9.0036 | $0.8472_n$ | $1.1409_n$ | $1.1413_n$ |
| 4.676 | 0.3386 | 9.0215 | $0.8483_n$ | $1.1340_n$ | $1.1492_n$ |
| 5.674 | 0.3413 | 9.0357 | $0.8499_n$ | $1.1270_n$ | $1.1567_n$ |
| 6.671 | 0.3440 | 9.0460 | $0.8514_n$ | $1.1196_n$ | $1.1641_n$ |
| 7.668 | 0.3468 | 9.0531 | $0.8525_n$ | $1.1121_n$ | $1.1711_n$ |
| 8.665 | 0.3495 | 9.0581 | $0.8527_n$ | $1.1043_n$ | $1.1780_n$ |
| 9.663 | 0.3522 | 9.0623 | $0.8518_n$ | $1.0962_n$ | $1.1846_n$ |
| 10.660 | 0.3550 | 9.0671 | $0.8498_n$ | $1.0878_n$ | $1.1910_n$ |
| 11.657 | 0.3577 | 9.0739 | $0.8469_n$ | $1.0792_n$ | $1.1972_n$ |
| 12.654 | 0.3604 | 9.0834 | $0.8437_n$ | $1.0703_n$ | $1.2031_n$ |
| 13.652 | 0.3631 | 9.0955 | $0.8405_n$ | $1.0610_n$ | $1.2089_n$ |
| 14.649 | 0.3659 | 9.1097 | $0.8379_n$ | $1.0515_n$ | $1.2144_n$ |
| 15.646 | 0.3686 | 9.1250 | $0.8362_n$ | $1.0416_n$ | $1.2198_n$ |
| 16.644 | 0.3713 | 9.1402 | $0.8358_n$ | $1.0313_n$ | $1.2250_n$ |
| 17.641 | 0.3741 | 9.1542 | $0.8364_n$ | $1.0207_n$ | $1.2299_n$ |
| 18.638 | 0.3768 | 9.1661 | $0.8379_n$ | $1.0097_n$ | $1.2348_n$ |
| 19.635 | 0.3795 | 9.1757 | $0.8396_n$ | $0.9983_n$ | $1.2394_n$ |
| 20.633 | 0.3823 | 9.1829 | $0.8413_n$ | $0.9864_n$ | $1.2439_n$ |
| 21.630 | 0.3850 | 9.1884 | $0.8423_n$ | $0.9741_n$ | $1.2482_n$ |
| 22.627 | 0.3877 | 9.1929 | $0.8423_n$ | $0.9614_n$ | $1.2523_n$ |
| 23.624 | 0.3904 | 9.1976 | $0.8412_n$ | $0.9481_n$ | $1.2563_n$ |
| 24.622 | 0.3932 | 9.2033 | $0.8390_n$ | $0.9343_n$ | $1.2601_n$ |
| 25.619 | 0.3959 | 9.2109 | $0.8361_n$ | $0.9199_n$ | $1.2637_n$ |
| 26.616 | 0.3986 | 9.2207 | $0.8330_n$ | $0.9048_n$ | $1.2672_n$ |
| 27.613 | 0.4014 | 9.2325 | $0.8301_n$ | $0.8892_n$ | $1.2706_n$ |
| 28.611 | 0.4041 | 9.2456 | $0.8280_n$ | $0.8728_n$ | $1.2738_n$ |

$$E = -0.03$$

## Konstanten für die Sterntage 1911,

gültig für die Sternzeitepochen $19^h\ 1^m.4$ Berlin.

| Datum in Mittl. Zeit | | $t$ | log. $A$ | log. $B$ | log. $C$ | log. $D$ | $C$ |
|---|---|---|---|---|---|---|---|
| Mai | 28.611 | 0.4041 | 9.2456 | $0.8280_n$ | $0.8728_n$ | $1.2738_n$ | —7.461 |
| | 29.608 | 0.4068 | 9.2593 | $0.8269_n$ | $0.8557_n$ | $1.2769_n$ | 7.172 |
| | 30.605 | 0.4096 | 9.2726 | $0.8271_n$ | $0.8377_n$ | $1.2798_n$ | 6.882 |
| | 31.603 | 0.4123 | 9.2844 | $0.8283_n$ | $0.8188_n$ | $1.2826_n$ | 6.589 |
| Juni | 1.600 | 0.4150 | 9.2945 | $0.8303_n$ | $0.7990_n$ | $1.2852_n$ | 6.295 |
| | 2.597 | 0.4178 | 9.3024 | $0.8325_n$ | $0.7781_n$ | $1.2877_n$ | —5.999 |
| | 3.594 | 0.4205 | 9.3084 | $0.8343_n$ | $0.7560_n$ | $1.2901_n$ | 5.702 |
| | 4.592 | 0.4232 | 9.3130 | $0.8354_n$ | $0.7326_n$ | $1.2924_n$ | 5.403 |
| | 5.589 | 0.4259 | 9.3167 | $0.8354_n$ | $0.7078_n$ | $1.2945_n$ | 5.103 |
| | 6.586 | 0.4287 | 9.3204 | $0.8343_n$ | $0.6813_n$ | $1.2964_n$ | 4.801 |
| | 7.583 | 0.4314 | 9.3250 | $0.8323_n$ | $0.6530_n$ | $1.2983_n$ | —4.498 |
| | 8.581 | 0.4341 | 9.3309 | $0.8297_n$ | $0.6226_n$ | $1.3000_n$ | 4.194 |
| | 9.578 | 0.4369 | 9.3383 | $0.8269_n$ | $0.5898_n$ | $1.3016_n$ | 3.889 |
| | 10.575 | 0.4396 | 9.3471 | $0.8246_n$ | $0.5542_n$ | $1.3031_n$ | 3.583 |
| | 11.573 | 0.4423 | 9.3567 | $0.8232_n$ | $0.5153_n$ | $1.3044_n$ | 3.275 |
| | 12.570 | 0.4451 | 9.3666 | $0.8230_n$ | $0.4724_n$ | $1.3056_n$ | —2.968 |
| | 13.567 | 0.4478 | 9.3761 | $0.8240_n$ | $0.4247_n$ | $1.3067_n$ | 2.659 |
| | 14.564 | 0.4505 | 9.3846 | $0.8260_n$ | $0.3710_n$ | $1.3077_n$ | 2.350 |
| | 15.562 | 0.4532 | 9.3918 | $0.8285_n$ | $0.3095_n$ | $1.3085_n$ | 2.040 |
| | 16.559 | 0.4560 | 9.3975 | $0.8311_n$ | $0.2378_n$ | $1.3093_n$ | 1.729 |
| | 17.556 | 0.4587 | 9.4020 | $0.8333_n$ | $0.1517_n$ | $1.3099_n$ | —1.418 |
| | 18.553 | 0.4614 | 9.4054 | $0.8346_n$ | $0.0440_n$ | $1.3104_n$ | 1.107 |
| | 19.551 | 0.4642 | 9.4088 | $0.8347_n$ | $9.9005_n$ | $1.3107_n$ | 0.795 |
| | 20.548 | 0.4669 | 9.4126 | $0.8338_n$ | $9.6844_n$ | $1.3110_n$ | 0.484 |
| | 21.545 | 0.4696 | 9.4173 | $0.8321_n$ | $9.2348_n$ | $1.3111_n$ | —0.172 |
| | 22.542 | 0.4724 | 9.4233 | $0.8298_n$ | 9.1465 | $1.3111_n$ | +0.140 |
| | 23.540 | 0.4751 | 9.4307 | $0.8277_n$ | 9.6550 | $1.3110_n$ | 0.452 |
| | 24.537 | 0.4778 | 9.4391 | $0.8262_n$ | 9.8828 | $1.3108_n$ | 0.763 |
| | 25.534 | 0.4806 | 9.4482 | $0.8256_n$ | 0.0313 | $1.3104_n$ | 1.075 |
| | 26.532 | 0.4833 | 9.4572 | $0.8263_n$ | 0.1417 | $1.3099_n$ | 1.386 |
| | 27.529 | 0.4860 | 9.4656 | $0.8281_n$ | 0.2295 | $1.3093_n$ | +1.696 |
| | 28.526 | 0.4887 | 9.4730 | $0.8309_n$ | 0.3025 | $1.3086_n$ | 2.007 |
| | 29.523 | 0.4915 | 9.4790 | $0.8340_n$ | 0.3648 | $1.3078_n$ | 2.316 |
| | 30.521 | 0.4942 | 9.4837 | $0.8370_n$ | 0.4191 | $1.3068_n$ | 2.625 |
| Juli | 1.518 | 0.4969 | 9.4873 | $0.8394_n$ | 0.4674 | $1.3058_n$ | 2.933 |
| | 2.515 | 0.4997 | 9.4901 | $0.8409_n$ | 0.5106 | $1.3046_n$ | +3.241 |
| | 3.512 | 0.5024 | 9.4926 | $0.8412_n$ | 0.5498 | $1.3032_n$ | 3.547 |
| | 4.510 | 0.5051 | 9.4955 | $0.8405_n$ | 0.5857 | $1.3018_n$ | 3.852 |

$$E = -0.03$$

# Konstanten für die Sterntage 1911,

gültig für die Sternzeitepochen $19^h\ 1^m.4$ Berlin.

| Datum in Mittl. Zeit | | $t$ | log. $A$ | log. $B$ | log. $C$ | log. $D$ | $C$ |
|---|---|---|---|---|---|---|---|
| Juli | 4.510 | 0.5051 | 9.4955 | $0.8405_n$ | 0.5857 | $1.3018_n$ | +3.852 |
| | 5.507 | 0.5079 | 9.4991 | $0.8391_n$ | 0.6188 | $1.3002_n$ | 4.157 |
| | 6.504 | 0.5106 | 9.5037 | $0.8374_n$ | 0.6494 | $1.2985_n$ | 4.460 |
| | 7.502 | 0.5133 | 9.5093 | $0.8359_n$ | 0.6778 | $1.2967_n$ | 4.762 |
| | 8.499 | 0.5160 | 9.5156 | $0.8352_n$ | 0.7044 | $1.2947_n$ | 5.063 |
| | 9.496 | 0.5188 | 9.5224 | $0.8355_n$ | 0.7294 | $1.2927_n$ | +5.362 |
| | 10.493 | 0.5215 | 9.5290 | $0.8370_n$ | 0.7528 | $1.2904_n$ | 5.660 |
| | 11.491 | 0.5242 | 9.5351 | $0.8395_n$ | 0.7750 | $1.2881_n$ | 5.957 |
| | 12.488 | 0.5270 | 9.5403 | $0.8428_n$ | 0.7960 | $1.2856_n$ | 6.252 |
| | 13.485 | 0.5297 | 9.5445 | $0.8463_n$ | 0.8159 | $1.2830_n$ | 6.545 |
| | 14.482 | 0.5324 | 9.5477 | $0.8496_n$ | 0.8348 | $1.2803_n$ | |
| | 15.480 | 0.5352 | 9.5502 | $0.8521_n$ | 0.8528 | $1.2774_n$ | |
| | 16.477 | 0.5379 | 9.5522 | $0.8536_n$ | 0.8700 | $1.2743_n$ | |
| | 17.474 | 0.5406 | 9.5544 | $0.8540_n$ | 0.8864 | $1.2712_n$ | |
| | 18.472 | 0.5433 | 9.5572 | $0.8535_n$ | 0.9021 | $1.2678_n$ | |
| | 19.469 | 0.5461 | 9.5608 | $0.8524_n$ | 0.9171 | $1.2644_n$ | |
| | 20.466 | 0.5488 | 9.5653 | $0.8511_n$ | 0.9316 | $1.2608_n$ | |
| | 21.463 | 0.5515 | 9.5708 | $0.8502_n$ | 0.9454 | $1.2570_n$ | |
| | 22.461 | 0.5543 | 9.5769 | $0.8502_n$ | 0.9587 | $1.2531_n$ | |
| | 23.458 | 0.5570 | 9.5832 | $0.8511_n$ | 0.9715 | $1.2490_n$ | |
| | 24.455 | 0.5597 | 9.5892 | $0.8533_n$ | 0.9838 | $1.2448_n$ | |
| | 25.452 | 0.5625 | 9.5946 | $0.8563_n$ | 0.9957 | $1.2404_n$ | |
| | 26.450 | 0.5652 | 9.5991 | $0.8599_n$ | 1.0071 | $1.2358_n$ | |
| | 27.447 | 0.5679 | 9.6026 | $0.8635_n$ | 1.0181 | $1.2311_n$ | |
| | 28.444 | 0.5707 | 9.6051 | $0.8668_n$ | 1.0287 | $1.2262_n$ | |
| | 29.441 | 0.5734 | 9.6068 | $0.8692_n$ | 1.0390 | $1.2211_n$ | |
| | 30.439 | 0.5761 | 9.6083 | $0.8706_n$ | 1.0489 | $1.2158_n$ | |
| | 31.436 | 0.5789 | 9.6098 | $0.8709_n$ | 1.0585 | $1.2104_n$ | |
| Aug. | 1.433 | 0.5816 | 9.6117 | $0.8704_n$ | 1.0677 | $1.2047_n$ | |
| | 2.431 | 0.5843 | 9.6143 | $0.8694_n$ | 1.0767 | $1.1989_n$ | |
| | 3.428 | 0.5870 | 9.6178 | $0.8685_n$ | 1.0853 | $1.1928_n$ | |
| | 4.425 | 0.5898 | 9.6219 | $0.8680_n$ | 1.0937 | $1.1865_n$ | |
| | 5.422 | 0.5925 | 9.6265 | $0.8684_n$ | 1.1018 | $1.1801_n$ | |
| | 6.420 | 0.5952 | 9.6311 | $0.8698_n$ | 1.1096 | $1.1734_n$ | |
| | 7.417 | 0.5980 | 9.6355 | $0.8722_n$ | 1.1172 | $1.1664_n$ | |
| | 8.414 | 0.6007 | 9.6392 | $0.8755_n$ | 1.1245 | $1.1593_n$ | |
| | 9.411 | 0.6034 | 9.6422 | $0.8791_n$ | 1.1316 | $1.1518_n$ | |
| | 10.409 | 0.6062 | 9.6444 | $0.8826_n$ | 1.1384 | $1.1442_n$ | |

$E = -0.02$

## Konstanten für die Sterntage 1911,

gültig für die Sternzeitepochen $19^h\ 1^m.4$ Berlin.

| Datum in Mittl. Zeit | t | log. A | log. B | log. C | log. D | D |
|---|---|---|---|---|---|---|
| Aug. 10.409 | 0.6062 | 9.6444 | $0.8826_n$ | 1.1384 | $1.1442_n$ | |
| 11.406 | 0.6089 | 9.6459 | $0.8855_n$ | 1.1451 | $1.1362_n$ | |
| 12.403 | 0.6116 | 9.6469 | $0.8876_n$ | 1.1515 | $1.1280_n$ | |
| 13.401 | 0.6143 | 9.6479 | $0.8887_n$ | 1.1577 | $1.1195_n$ | |
| 14.398 | 0.6171 | 9.6492 | $0.8887_n$ | 1.1637 | $1.1107_n$ | |
| 15.395 | 0.6198 | 9.6511 | $0.8881_n$ | 1.1695 | $1.1016_n$ | |
| 16.392 | 0.6225 | 9.6538 | $0.8871_n$ | 1.1751 | $1.0922_n$ | |
| 17.390 | 0.6253 | 9.6573 | $0.8862_n$ | 1.1805 | $1.0825_n$ | |
| 18.387 | 0.6280 | 9.6614 | $0.8859_n$ | 1.1857 | $1.0723_n$ | |
| 19.384 | 0.6307 | 9.6659 | $0.8865_n$ | 1.1908 | $1.0619_n$ | |
| 20.381 | 0.6335 | 9.6703 | $0.8881_n$ | 1.1957 | $1.0510_n$ | |
| 21.379 | 0.6362 | 9.6743 | $0.8906_n$ | 1.2004 | $1.0397_n$ | |
| 22.376 | 0.6389 | 9.6777 | $0.8938_n$ | 1.2049 | $1.0280_n$ | |
| 23.373 | 0.6417 | 9.6803 | $0.8972_n$ | 1.2093 | $1.0158_n$ | |
| 24.370 | 0.6444 | 9.6820 | $0.9003_n$ | 1.2135 | $1.0032_n$ | |
| 25.368 | 0.6471 | 9.6831 | $0.9027_n$ | 1.2175 | $0.9900_n$ | |
| 26.365 | 0.6498 | 9.6837 | $0.9043_n$ | 1.2214 | $0.9763_n$ | |
| 27.362 | 0.6526 | 9.6842 | $0.9048_n$ | 1.2251 | $0.9621_n$ | |
| 28.360 | 0.6553 | 9.6851 | $0.9045_n$ | 1.2287 | $0.9471_n$ | |
| 29.357 | 0.6580 | 9.6864 | $0.9035_n$ | 1.2321 | $0.9316_n$ | |
| 30.354 | 0.6608 | 9.6885 | $0.9023_n$ | 1.2354 | $0.9153_n$ | |
| 31.351 | 0.6635 | 9.6911 | $0.9013_n$ | 1.2386 | $0.8983_n$ | |
| Sept. 1.349 | 0.6662 | 9.6943 | $0.9010_n$ | 1.2416 | $0.8804_n$ | |
| 2.346 | 0.6690 | 9.6977 | $0.9016_n$ | 1.2444 | $0.8616_n$ | |
| 3.343 | 0.6717 | 9.7009 | $0.9032_n$ | 1.2471 | $0.8418_n$ | |
| 4.340 | 0.6744 | 9.7038 | $0.9056_n$ | 1.2497 | $0.8209_n$ | —6.621 |
| 5.338 | 0.6771 | 9.7061 | $0.9085_n$ | 1.2521 | $0.7989_n$ | 6.293 |
| 6.335 | 0.6799 | 9.7077 | $0.9114_n$ | 1.2544 | $0.7755_n$ | 5.964 |
| 7.332 | 0.6826 | 9.7086 | $0.9140_n$ | 1.2566 | $0.7507_n$ | 5.632 |
| 8.330 | 0.6853 | 9.7091 | $0.9158_n$ | 1.2586 | $0.7242_n$ | 5.299 |
| 9.327 | 0.6881 | 9.7094 | $0.9167_n$ | 1.2605 | $0.6958_n$ | —4.964 |
| 10.324 | 0.6908 | 9.7099 | $0.9165_n$ | 1.2623 | $0.6653_n$ | 4.627 |
| 11.321 | 0.6935 | 9.7108 | $0.9156_n$ | 1.2639 | $0.6323_n$ | 4.288 |
| 12.319 | 0.6963 | 9.7124 | $0.9142_n$ | 1.2655 | $0.5965_n$ | 3.949 |
| 13.316 | 0.6990 | 9.7147 | $0.9127_n$ | 1.2668 | $0.5572_n$ | 3.608 |
| 14.313 | 0.7017 | 9.7177 | $0.9115_n$ | 1.2681 | $0.5140_n$ | —3.266 |
| 15.310 | 0.7045 | 9.7211 | $0.9111_n$ | 1.2692 | $0.4657_n$ | 2.922 |
| 16.308 | 0.7072 | 9.7246 | $0.9116_n$ | 1.2702 | $0.4113_n$ | 2.578 |

$E = -0.02$

# Konstanten für die Sterntage 1911,

gültig für die Sternzeitepochen $19^h$ $1^m.4$ Berlin.

| Datum in Mittl. Zeit | t | log. A | log. B | log. C | log. D | D |
|---|---|---|---|---|---|---|
| Sept. 16.308 | 0.7072 | 9.7246 | $0.9116_n$ | 1.2702 | $0.4113_n$ | −2.578 |
| 17.305 | 0.7099 | 9.7280 | $0.9129_n$ | 1.2711 | $0.3488_n$ | 2.233 |
| 18.302 | 0.7126 | 9.7308 | $0.9150_n$ | 1.2718 | $0.2757_n$ | 1.887 |
| 19.299 | 0.7154 | 9.7330 | $0.9175_n$ | 1.2725 | $0.1874_n$ | 1.540 |
| 20.297 | 0.7181 | 9.7345 | $0.9199_n$ | 1.2729 | $0.0764_n$ | 1.192 |
| 21.294 | 0.7208 | 9.7354 | $0.9218_n$ | 1.2733 | $9.9265_n$ | −0.844 |
| 22.291 | 0.7236 | 9.7358 | $0.9229_n$ | 1.2736 | $9.6955_n$ | 0.496 |
| 23.289 | 0.7263 | 9.7360 | $0.9230_n$ | 1.2737 | $9.1678_n$ | −0.147 |
| 24.286 | 0.7290 | 9.7364 | $0.9222_n$ | 1.2737 | 9.3049 | +0.202 |
| 25.283 | 0.7318 | 9.7371 | $0.9207_n$ | 1.2735 | 9.7411 | 0.551 |
| 26.280 | 0.7345 | 9.7385 | $0.9187_n$ | 1.2733 | 9.9544 | +0.900 |
| 27.278 | 0.7372 | 9.7404 | $0.9168_n$ | 1.2729 | 0.0967 | 1.249 |
| 28.275 | 0.7400 | 9.7429 | $0.9154_n$ | 1.2724 | 0.2036 | 1.598 |
| 29.272 | 0.7427 | 9.7457 | $0.9148_n$ | 1.2717 | 0.2894 | 1.947 |
| 30.269 | 0.7454 | 9.7486 | $0.9151_n$ | 1.2709 | 0.3608 | 2.295 |
| Okt. 1.267 | 0.7481 | 9.7512 | $0.9162_n$ | 1.2700 | 0.4221 | +2.643 |
| 2.264 | 0.7509 | 9.7534 | $0.9180_n$ | 1.2690 | 0.4757 | 2.990 |
| 3.261 | 0.7536 | 9.7549 | $0.9200_n$ | 1.2678 | 0.5233 | 3.337 |
| 4.259 | 0.7563 | 9.7559 | $0.9219_n$ | 1.2665 | 0.5662 | 3.683 |
| 5.256 | 0.7591 | 9.7564 | $0.9231_n$ | 1.2651 | 0.6051 | 4.028 |
| 6.253 | 0.7618 | 9.7567 | $0.9234_n$ | 1.2635 | 0.6406 | +4.372 |
| 7.250 | 0.7645 | 9.7571 | $0.9228_n$ | 1.2618 | 0.6734 | 4.715 |
| 8.248 | 0.7673 | 9.7577 | $0.9213_n$ | 1.2600 | 0.7038 | 5.056 |
| 9.245 | 0.7700 | 9.7589 | $0.9192_n$ | 1.2580 | 0.7321 | 5.397 |
| 10.242 | 0.7727 | 9.7608 | $0.9167_n$ | 1.2559 | 0.7586 | 5.736 |
| 11.239 | 0.7754 | 9.7632 | $0.9145_n$ | 1.2537 | 0.7834 | +6.073 |
| 12.237 | 0.7782 | 9.7663 | $0.9128_n$ | 1.2513 | 0.8068 | 6.409 |
| 13.234 | 0.7809 | 9.7696 | $0.9121_n$ | 1.2487 | 0.8288 | |
| 14.231 | 0.7836 | 9.7728 | $0.9122_n$ | 1.2461 | 0.8497 | |
| 15.228 | 0.7864 | 9.7757 | $0.9131_n$ | 1.2432 | 0.8696 | |
| 16.226 | 0.7891 | 9.7782 | $0.9146_n$ | 1.2402 | 0.8884 | |
| 17.223 | 0.7918 | 9.7800 | $0.9163_n$ | 1.2371 | 0.9063 | |
| 18.220 | 0.7946 | 9.7811 | $0.9176_n$ | 1.2338 | 0.9235 | |
| 19.218 | 0.7973 | 9.7819 | $0.9182_n$ | 1.2304 | 0.9398 | |
| 20.215 | 0.8000 | 9.7824 | $0.9179_n$ | 1.2267 | 0.9555 | |
| 21.212 | 0.8028 | 9.7829 | $0.9166_n$ | 1.2230 | 0.9704 | |
| 22.209 | 0.8055 | 9.7837 | $0.9145_n$ | 1.2190 | 0.9848 | |
| 23.207 | 0.8082 | 9.7850 | $0.9118_n$ | 1.2149 | 0.9986 | |

$E = -0.^s02$

## Konstanten für die Sterntage 1911,

gültig für die Sternzeitepochen $19^h\ 1^m.4$ Berlin.

| Datum in Mittl. Zeit | $t$ | log. $A$ | log. $B$ | log. $C$ | log. $D$ |
|---|---|---|---|---|---|
| Okt. 23.207 | 0.8082 | 9.7850 | $0.9118_n$ | 1.2149 | 0.9986 |
| 24.204 | 0.8109 | 9.7868 | $0.9090_n$ | 1.2106 | 1.0118 |
| 25.201 | 0.8137 | 9.7892 | $0.9065_n$ | 1.2062 | 1.0246 |
| 26.198 | 0.8164 | 9.7920 | $0.9048_n$ | 1.2015 | 1.0368 |
| 27.196 | 0.8191 | 9.7949 | $0.9039_n$ | 1.1967 | 1.0486 |
| 28.193 | 0.8219 | 9.7978 | $0.9041_n$ | 1.1917 | 1.0599 |
| 29.190 | 0.8246 | 9.8002 | $0.9050_n$ | 1.1865 | 1.0709 |
| 30.188 | 0.8273 | 9.8023 | $0.9063_n$ | 1.1810 | 1.0814 |
| 31.185 | 0.8301 | 9.8038 | $0.9076_n$ | 1.1754 | 1.0916 |
| Nov. 1.182 | 0.8328 | 9.8048 | $0.9086_n$ | 1.1696 | 1.1014 |
| 2.179 | 0.8355 | 9.8055 | $0.9087_n$ | 1.1636 | 1.1109 |
| 3.177 | 0.8382 | 9.8062 | $0.9079_n$ | 1.1573 | 1.1201 |
| 4.174 | 0.8410 | 9.8070 | $0.9061_n$ | 1.1508 | 1.1289 |
| 5.171 | 0.8437 | 9.8084 | $0.9035_n$ | 1.1441 | 1.1375 |
| 6.168 | 0.8464 | 9.8103 | $0.9005_n$ | 1.1371 | 1.1457 |
| 7.166 | 0.8492 | 9.8127 | $0.8976_n$ | 1.1299 | 1.1537 |
| 8.163 | 0.8519 | 9.8158 | $0.8951_n$ | 1.1224 | 1.1614 |
| 9.160 | 0.8546 | 9.8191 | $0.8934_n$ | 1.1146 | 1.1688 |
| 10.157 | 0.8574 | 9.8225 | $0.8928_n$ | 1.1066 | 1.1760 |
| 11.155 | 0.8601 | 9.8258 | $0.8931_n$ | 1.0983 | 1.1829 |
| 12.152 | 0.8628 | 9.8286 | $0.8941_n$ | 1.0896 | 1.1896 |
| 13.149 | 0.8656 | 9.8310 | $0.8955_n$ | 1.0807 | 1.1961 |
| 14.147 | 0.8683 | 9.8327 | $0.8967_n$ | 1.0714 | 1.2024 |
| 15.144 | 0.8710 | 9.8340 | $0.8974_n$ | 1.0618 | 1.2084 |
| 16.141 | 0.8737 | 9.8351 | $0.8973_n$ | 1.0518 | 1.2142 |
| 17.138 | 0.8765 | 9.8360 | $0.8962_n$ | 1.0415 | 1.2198 |
| 18.136 | 0.8792 | 9.8371 | $0.8941_n$ | 1.0307 | 1.2252 |
| 19.133 | 0.8819 | 9.8386 | $0.8914_n$ | 1.0196 | 1.2304 |
| 20.130 | 0.8847 | 9.8406 | $0.8883_n$ | 1.0080 | 1.2355 |
| 21.127 | 0.8874 | 9.8431 | $0.8855_n$ | 0.9959 | 1.2403 |
| 22.125 | 0.8901 | 9.8459 | $0.8833_n$ | 0.9834 | 1.2450 |
| 23.122 | 0.8929 | 9.8490 | $0.8820_n$ | 0.9703 | 1.2494 |
| 24.119 | 0.8956 | 9.8520 | $0.8818_n$ | 0.9567 | 1.2537 |
| 25.117 | 0.8983 | 9.8549 | $0.8825_n$ | 0.9425 | 1.2578 |
| 26.114 | 0.9010 | 9.8573 | $0.8839_n$ | 0.9277 | 1.2618 |
| 27.111 | 0.9038 | 9.8593 | $0.8856_n$ | 0.9122 | 1.2656 |
| 28.108 | 0.9065 | 9.8608 | $0.8869_n$ | 0.8959 | 1.2692 |
| 29.106 | 0.9092 | 9.8620 | $0.8877_n$ | 0.8790 | 1.2726 |

$E = -0.02$

## Konstanten für die Sterntage 1911,

gültig für die Sternzeitepochen $19^h\ 1^m.4$ Berlin.

| Datum in Mittl. Zeit | $\tau$ | log. $A$ | log. $B$ | log. $C$ | log. $D$ | $C$ |
|---|---|---|---|---|---|---|
| Nov. 29.106 | 0.9092 | 9.8620 | $0.8877_n$ | 0.8790 | 1.2726 | |
| 30.103 | 0.9120 | 9.8631 | $0.8875_n$ | 0.8611 | 1.2759 | |
| Dez. 1.100 | 0.9147 | 9.8642 | $0.8863_n$ | 0.8424 | 1.2791 | |
| 2.097 | 0.9174 | 9.8657 | $0.8842_n$ | 0.8227 | 1.2820 | |
| 3.095 | 0.9202 | 9.8676 | $0.8815_n$ | 0.8019 | 1.2849 | +6.337 |
| 4.092 | 0.9229 | 9.8700 | $0.8788_n$ | 0.7799 | 1.2876 | +6.023 |
| 5.089 | 0.9256 | 9.8729 | $0.8764_n$ | 0.7565 | 1.2901 | 5.708 |
| 6.086 | 0.9284 | 9.8762 | $0.8747_n$ | 0.7317 | 1.2924 | 5.391 |
| 7.084 | 0.9311 | 9.8796 | $0.8741_n$ | 0.7052 | 1.2947 | 5.072 |
| 8.081 | 0.9338 | 9.8829 | $0.8746_n$ | 0.6769 | 1.2968 | 4.752 |
| 9.078 | 0.9365 | 9.8860 | $0.8760_n$ | 0.6464 | 1.2987 | +4.430 |
| 10.076 | 0.9393 | 9.8886 | $0.8779_n$ | 0.6135 | 1.3005 | 4.107 |
| 11.073 | 0.9420 | 9.8907 | $0.8800_n$ | 0.5777 | 1.3021 | 3.782 |
| 12.070 | 0.9447 | 9.8924 | $0.8816_n$ | 0.5385 | 1.3036 | 3.455 |
| 13.067 | 0.9475 | 9.8937 | $0.8825_n$ | 0.4953 | 1.3050 | 3.128 |
| 14.065 | 0.9502 | 9.8949 | $0.8825_n$ | 0.4471 | 1.3062 | +2.800 |
| 15.062 | 0.9529 | 9.8961 | $0.8814_n$ | 0.3928 | 1.3073 | 2.471 |
| 16.059 | 0.9557 | 9.8976 | $0.8796_n$ | 0.3305 | 1.3083 | 2.141 |
| 17.056 | 0.9584 | 9.8995 | $0.8773_n$ | 0.2576 | 1.3091 | 1.810 |
| 18.054 | 0.9611 | 9.9017 | $0.8751_n$ | 0.1697 | 1.3098 | 1.478 |
| 19.051 | 0.9638 | 9.9044 | $0.8734_n$ | 0.0593 | 1.3103 | +1.146 |
| 20.048 | 0.9666 | 9.9073 | $0.8725_n$ | 9.9105 | 1.3107 | 0.814 |
| 21.046 | 0.9693 | 9.9102 | $0.8728_n$ | 9.6823 | 1.3110 | 0.481 |
| 22.043 | 0.9720 | 9.9130 | $0.8741_n$ | 9.1710 | 1.3111 | +0.148 |
| 23.040 | 0.9748 | 9.9155 | $0.8762_n$ | $9.2664_n$ | 1.3111 | −0.185 |
| 24.037 | 0.9775 | 9.9176 | $0.8788_n$ | $9.7140_n$ | 1.3110 | −0.518 |
| 25.035 | 0.9802 | 9.9193 | $0.8813_n$ | $9.9296_n$ | 1.3107 | 0.850 |
| 26.032 | 0.9830 | 9.9206 | $0.8833_n$ | $0.0730_n$ | 1.3103 | 1.183 |
| 27.029 | 0.9857 | 9.9216 | $0.8844_n$ | $0.1805_n$ | 1.3097 | 1.515 |
| 28.026 | 0.9884 | 9.9227 | $0.8846_n$ | $0.2665_n$ | 1.3090 | 1.847 |
| 29.024 | 0.9911 | 9.9240 | $0.8838_n$ | $0.3381_n$ | 1.3082 | −2.178 |
| 30.021 | 0.9939 | 9.9256 | $0.8823_n$ | $0.3995_n$ | 1.3072 | 2.509 |
| 31.018 | 0.9966 | 9.9276 | $0.8806_n$ | $0.4531_n$ | 1.3061 | 2.839 |
| 32.016 | 0.9993 | 9.9300 | $0.8790_n$ | $0.5007_n$ | 1.3048 | 3.168 |
| 33.013 | 1.0021 | 9.9328 | $0.8781_n$ | $0.5435_n$ | 1.3035 | 3.495 |
| 34.010 | 1.0048 | 9.9358 | $0.8781_n$ | $0.5823_n$ | 1.3019 | −3.822 |
| 35.007 | 1.0075 | 9.9388 | $0.8792_n$ | $0.6178_n$ | 1.3003 | 4.148 |
| 36.005 | 1.0103 | 9.9416 | $0.8812_n$ | $0.6505_n$ | 1.2984 | 4.472 |

$$E = -0.02$$

## Konstanten für die mittleren Tage 1911,

zur Reduktion von dem Mittl. Äquin. 1910.0 auf das jedesmalige wahre Äquinoktium.

| 12h Mittl. Zeit | f | log. g | G | 12h Mittl. Zeit | f | log. g | G |
|---|---|---|---|---|---|---|---|
| 1910 Dez. 30 | +34.96" | 1.21188 | 339° 6.6' | April 25 | +49.52" | 1.35646 | 341° 30.7' |
| 1911 Jan. 3 | 35.67 | 1.22001 | 339 19.2 | 29 | 50.02 | 1.36009 | 341 48.1 |
| 7 | 36.37 | 1.22795 | 339 29.2 | Mai 3 | 50.54 | 1.36384 | 342 5.9 |
| 11 | 37.06 | 1.23569 | 339 36.8 | 7 | 51.08 | 1.36772 | 342 23.9 |
| 15 | 37.73 | 1.24324 | 339 42.1 | 11 | 51.64 | 1.37174 | 342 42.0 |
| 19 | +38.38 | 1.25056 | 339 45.4 | 15 | +52.22 | 1.37590 | 343 0.0 |
| 23 | 39.02 | 1.25759 | 339 46.9 | 19 | 52.82 | 1.38020 | 343 17.5 |
| 27 | 39.63 | 1.26433 | 339 46.9 | 23 | 53.44 | 1.38464 | 343 34.2 |
| 31 | 40.22 | 1.27078 | 339 45.9 | 27 | 54.08 | 1.38919 | 343 50.3 |
| Febr. 4 | 40.78 | 1.27693 | 339 44.0 | 31 | 54.73 | 1.39383 | 344 5.5 |
| 8 | +41.32 | 1.28277 | 339 41.5 | Juni 4 | +55.40 | 1.39856 | 344 19.7 |
| 12 | 41.84 | 1.28829 | 339 38.8 | 8 | 56.07 | 1.40337 | 344 32.5 |
| 16 | 42.34 | 1.29351 | 339 36.1 | 12 | 56.76 | 1.40825 | 344 44.1 |
| 20 | 42.81 | 1.29847 | 339 33.7 | 16 | 57.45 | 1.41317 | 344 54.4 |
| 24 | 43.27 | 1.30316 | 339 31.8 | 20 | 58.15 | 1.41810 | 345 3.4 |
| 28 | +43.71 | 1.30759 | 339 30.7 | 24 | +58.84 | 1.42303 | 345 10.9 |
| März 4 | 44.13 | 1.31179 | 339 30.3 | 28 | 59.54 | 1.42792 | 345 17.1 |
| 8 | 44.54 | 1.31577 | 339 31.0 | Juli 2 | 60.23 | 1.43275 | 345 22.0 |
| 12 | 44.94 | 1.31954 | 339 33.2 | 6 | 60.92 | 1.43754 | 345 25.6 |
| 16 | 45.33 | 1.32315 | 339 36.7 | 10 | 61.59 | 1.44225 | 345 27.8 |
| 20 | +45.72 | 1.32663 | 339 41.6 | 14 | +62.25 | 1.44687 | 345 28.8 |
| 24 | 46.10 | 1.32999 | 339 48.0 | 18 | 62.90 | 1.45136 | 345 28.9 |
| 28 | 46.49 | 1.33328 | 339 56.0 | 22 | 63.53 | 1.45573 | 345 28.2 |
| April 1 | 46.89 | 1.33654 | 340 5.6 | 26 | 64.15 | 1.45998 | 345 26.6 |
| 5 | 47.29 | 1.33977 | 340 16.6 | 30 | 64.75 | 1.46410 | 345 24.3 |
| 9 | +47.71 | 1.34299 | 340 29.0 | Aug. 3 | +65.33 | 1.46806 | 345 21.4 |
| 13 | 48.14 | 1.34623 | 340 42.7 | 7 | 65.89 | 1.47185 | 345 18.2 |
| 17 | 48.58 | 1.34953 | 340 57.7 | 11 | 66.43 | 1.47550 | 345 14.8 |
| 21 | 49.04 | 1.35294 | 341 13.7 | 15 | 66.95 | 1.47899 | 345 11.3 |
| 25 | 49.52 | 1.35646 | 341 30.7 | 19 | 67.45 | 1.48231 | 345 7.9 |

# Konstanten für die mittleren Tage 1911,

zur Reduktion von dem Mittl. Äquin. 1910.0 auf das jedesmalige wahre Äquinoktium.

| $12^h$ Mittl. Zeit | $f$ | log. $g$ | $G$ | $12^h$ Mittl. Zeit | $f$ | log. $g$ | $G$ |
|---|---|---|---|---|---|---|---|
| Aug. 19 | +67.45″ | 1.48231 | 345° 7.9′ | Okt. 30 | +75.19″ | 1.52753 | 346° 10.0′ |
| 23 | 67.93 | 1.48549 | 345 4.7 | Nov. 3 | 75.71 | 1.53019 | 346 21.2 |
| 27 | 68.39 | 1.48852 | 345 1.9 | 7 | 76.26 | 1.53295 | 346 32.7 |
| 31 | 68.83 | 1.49142 | 344 59.5 | 11 | 76.83 | 1.53582 | 346 44.5 |
| Sept. 4 | 69.26 | 1.49419 | 344 57.7 | 15 | 77.42 | 1.53880 | 346 56.3 |
| 8 | +69.68 | 1.49683 | 344 56.6 | 19 | +78.03 | 1.54190 | 347 7.8 |
| 12 | 70.09 | 1.49936 | 344 56.4 | 23 | 78.67 | 1.54512 | 347 18.9 |
| 16 | 70.49 | 1.50180 | 344 57.0 | 27 | 79.33 | 1.54844 | 347 29.5 |
| 20 | 70.88 | 1.50417 | 344 58.6 | Dez. 1 | 80.01 | 1.55184 | 347 39.5 |
| 24 | 71.27 | 1.50649 | 345 1.2 | 5 | 80.70 | 1.55533 | 347 48.8 |
| 28 | +71.67 | 1.50878 | 345 4.8 | 9 | +81.41 | 1.55889 | 347 57.1 |
| Okt. 2 | 72.07 | 1.51103 | 345 9.6 | 13 | 82.13 | 1.56249 | 348 4.5 |
| 6 | 72.47 | 1.51327 | 345 15.5 | 17 | 82.85 | 1.56613 | 348 10.9 |
| 10 | 72.88 | 1.51552 | 345 22.4 | 21 | 83.58 | 1.56980 | 348 16.3 |
| 14 | 73.31 | 1.51779 | 345 30.3 | 25 | 84.31 | 1.57347 | 348 20.6 |
| 18 | +73.75 | 1.52011 | 345 39.1 | 29 | +85.04 | 1.57712 | 348 23.8 |
| 22 | 74.21 | 1.52250 | 345 48.7 | 33 | 85.76 | 1.58073 | 348 26.0 |
| 26 | 74.69 | 1.52497 | 345 59.1 | 37 | 86.48 | 1.58430 | 348 27.2 |
| 30 | 75.19 | 1.52753 | 346 10.0 | 41 | 87.18 | 1.58780 | 348 27.5 |

Red. in $\alpha = f + g \sin(G + \alpha) \operatorname{tg} \delta$

Red. in $\delta = g \cos(G + \alpha)$

Im Jahre 1911 werden zwei Sonnenfinsternisse stattfinden, von denen in unseren Gegenden indessen keine sichtbar sein wird. Der Mond wird in diesem Jahre vom Kernschatten der Erde nicht verfinstert.

## I. Totale Sonnenfinsternis 1911 April 28,

unsichtbar in Berlin.

### Elemente der Finsternis

nach wahrer Berliner Zeit τ.

| | 8h 39m 47s.8 | 9h 51m 48s.3 | 11h 3m 48s.7 | 12h 15m 49s.2 | 13h 27m 49s.6 |
|---|---|---|---|---|---|
| τ | 129°.9491 | 147°.9510 | 165°.9530 | 183°.9549 | 201°.9568 |
| λ☾ | 35° 50′ 31″.2 | 36° 34′ 52″.9 | 37° 19′ 16″.5 | 38° 3′ 41″.8 | 38° 48′ 8″.9 |
| β☾ | − 0 23 6.9 | − 0 19 1.0 | − 0 14 54.7 | − 0 10 48.2 | − 0 6 41.3 |
| π☾ | 1 0 29.7 | 1 0 31.0 | 1 0 32.2 | 1 0 33.4 | 1 0 34.6 |
| Δα′⊙ | − 0 0 12.03 | − 0 0 6.39 | − 0 0 0.74 | + 0 0 4.91 | + 0 0 10.56 |
| δ′⊙ | +13 59 15.5 | +14 0 10.0 | +14 1 4.4 | +14 1 58.9 | +14 2 53.3 |
| $N'$ | 65 19 32.1 | 65 20 7.5 | 65 20 43.0 | 65 21 18.4 | 65 21 53.8 |
| γ | −0.229411 | −0.229407 | −0.229403 | −0.229399 | −0.229395 |
| $u'_a$ | +0.536241 | +0.536212 | +0.536147 | +0.536047 | +0.535912 |
| $u'_i$ | +0.010115 | +0.010145 | +0.010209 | +0.010308 | +0.010443 |
| log sin $f_a$ | 7.666726 | 7.666720 | 7.666714 | 7.666708 | 7.666702 |
| log sin $f_i$ | $7.664555_n$ | $7.664549_n$ | $7.664543_n$ | $7.664538_n$ | $7.664532_n$ |
| log $n$ | 9.759853 | 9.759903 | 9.759933 | 9.759941 | 9.759927 |
| μ | 170°.8724 | 170°.8719 | 170°.8717 | 170°.8718 | 170°.8721 |
| $k$ | 66° 6′ 13″.2 | 66° 6′ 53″.4 | 66° 7′ 33″.6 | 66° 8′ 13″.8 | 66° 8′ 54″.0 |
| $g$ | 28 8 45.0 | 28 8 40.0 | 28 8 34.9 | 28 8 29.9 | 28 8 24.9 |
| $K$ | 83 39 48.9 | 83 39 35.1 | 83 39 21.4 | 83 39 7.8 | 83 38 54.2 |
| $G$ | 27 45 2.4 | 27 47 11.0 | 27 49 19.5 | 27 51 28.0 | 27 53 36.5 |

| | Mittl. Zeit Berlin | O. L. Gr. | Breite |
|---|---|---|---|
| Beginn der Finsternis überhaupt . . | 8h 42m.7 | 160° 13′ | −32° 24′ |
| Beginn der totalen Finsternis . . . . | 9 38.5 | 149 57 | −36 21 |
| Beginn der zentralen Finsternis . . | 9 39.6 | 147 58 | −36 57 |
| Zentrale Finsternis im wahren Mittag | 11 10.0 | 205 16 | − 0 36 |
| Ende der zentralen Finsternis . . . . | 13 2.5 | 270 30 | +10 59 |
| Ende der totalen Finsternis . . . . . | 13 3.6 | 270 0 | +11 11 |
| Ende der Finsternis überhaupt . . . | 13 59.3 | 257 44 | +15 22 |

## Grenzkurven für die Sichtbarkeit der Finsternis.

| Westl. Grenze. | | Südl. Grenze. | | Östl. Grenze. | | Nördl. Grenze | |
|---|---|---|---|---|---|---|---|
| O. L. Gr. | Br. | O. L. Gr. | Br. | O. L. Gr. | Br. | O. L. Gr. | Br. |
| 137° 14′ | − 6° 54′ | 169° 5′ | −69° 39′ | 270° 39′ | −24° 38′ | 282° 14′ | +40° 50′ |
| 132 56 | 11 44 | 184 28 | 64 16 | 276 44 | 17 45 | 269 8 | 43 44 |
| 131 51 | 19 45 | 195 50 | 57 41 | 280 20 | − 7 42 | 254 58 | 45 37 |
| 132 15 | 26 39 | 205 51 | 50 0 | 282 15 | + 0 12 | 241 30 | 46 4 |
| 133 3 | 31 39 | 214 18 | 42 7 | 283 19 | 5 38 | 228 44 | 45 5 |
| 133 53 | 35 17 | 221 24 | 35 3 | 283 58 | 9 26 | 216 44 | 42 36 |
| 134 46 | 38 27 | 227 46 | 29 24 | 284 28 | 12 39 | 205 41 | 38 27 |
| 136 3 | 42 10 | 234 4 | 25 19 | 284 59 | 16 20 | 195 47 | 32 36 |
| 138 24 | 47 25 | 240 53 | 22 46 | 285 34 | 21 22 | 187 0 | 25 23 |
| 143 16 | 54 55 | 248 41 | 21 46 | 286 5 | 28 15 | 178 52 | 17 29 |
| 153 58 | 64 0 | 257 49 | 22 21 | 285 43 | 36 10 | 170 29 | 9 42 |
| 169 5 | −69 39 | 270 39 | −24 38 | 282 14 | +40 50 | 160 54 | + 2 43 |
| | | | | | | 149 30 | − 3 1 |
| | | | | | | 137 14 | − 6 54 |

## Kurve der zentralen Verfinsterung.

| Mittl. Berl. Zeit | O. L. Gr. | Br. | Dauer der totalen Verfinsterung |
|---|---|---|---|
| 9h 39.6m | 147° 58′ | −36° 57′ | |
| 9 40.7 | 157 36 | 34 7 | 2m 26s |
| 9 46.7 | 170 5 | 28 58 | 2 55 |
| 9 59.1 | 181 0 | 22 33 | 3 29 |
| 10 18.0 | 190 16 | 15 17 | 4 6 |
| 10 42.5 | 198 9 | 7 44 | 4 38 |
| 11 10.0 | 205 16 | − 0 36 | 4 58 |
| 11 37.6 | 212 22 | + 5 29 | 5 0 |
| 12 3.0 | 220 1 | 10 10 | 4 44 |
| 12 24.7 | 228 35 | 13 18 | 4 14 |
| 12 42.0 | 238 16 | 14 49 | 3 38 |
| 12 54.3 | 249 11 | 14 43 | 3 2 |
| 13 1.2 | 261 28 | 13 1 | 2 29 |
| 13 2.5 | 270 30 | +10 59 | |

Die Finsternis wird demnach in der östlichen Hälfte Australiens und Neu-Guineas, auf Neu-Seeland, im mittleren Teile des Stillen Ozeans und in der südlichen Hälfte Nordamerikas sichtbar sein.

## II. Ringförmige Sonnenfinsternis 1911 Oktober 21,

unsichtbar in Berlin.

### Elemente der Finsternis

nach wahrer Berliner Zeit τ.

| | 14h 19m 51s.9 | 15h 31m 52s.4 | 16h 43m 52s.8 | 17h 55m 53s.3 | 19h 7m 53s.8 |
|---|---|---|---|---|---|
| τ | 214°.9661 | 232°.9681 | 250°.9701 | 268°.9721 | 286°.9741 |
| λ☾ | 206° 3′ 44″.4 | 206° 42′ 1″.1 | 207° 20′ 15″.7 | 207° 58′ 28″.1 | 208° 36′ 38″.4 |
| β☾ | + 0 26 50.9 | + 0 23 19.2 | + 0 19 47.6 | + 0 16 16.0 | + 0 12 44.5 |
| π☾ | 0 56 8.6 | 0 56 7.1 | 0 56 5.5 | 0 56 4.0 | 0 56 2.4 |
| Δα′☉ | — 0 0 11.69 | — 0 0 6.61 | — 0 0 1.52 | + 0 0 3.56 | + 0 0 8.65 |
| δ′☉ | —10 35 54.7 | —10 36 56.5 | —10 37 58.3 | —10 39 0.1 | —10 40 1.8 |
| *N′* | 116 44 23.8 | 116 44 2.5 | 116 43 41.4 | 116 43 20.2 | 116 42 59.1 |
| γ | +0.322153 | +0.322141 | +0.322129 | +0.322116 | +0.322103 |
| $u'_a$ | +0.560173 | +0.560373 | +0.560542 | +0.560680 | +0.560787 |
| $u'_i$ | —0.013697 | —0.013896 | —0.014064 | —0.014201 | —0.014308 |
| log sin $f_a$ | 7.672026 | 7.672033 | 7.672040 | 7.672046 | 7.672053 |
| log sin $f_i$ | $7.669856_n$ | $7.669862_n$ | $7.669869_n$ | $7.669875_n$ | $7.669882_n$ |
| log *n* | 9.722062 | 9.722086 | 9.722091 | 9.722077 | 9.722046 |
| μ | 260°.4641 | 260°.4639 | 260°.4642 | 260°.4648 | 260°.4658 |
| *k* | 116° 14′ 54″.6 | 116° 14′ 28″.3 | 116° 14′ 1″.9 | 116° 13′ 35″.4 | 116° 13′ 8″.8 |
| *g* | 28 37 9.2 | 28 37 11.0 | 28 37 12.7 | 28 37 14.4 | 28 37 16.2 |
| *K* | 84 42 20.7 | 84 41 55.2 | 84 41 29.8 | 84 41 4.3 | 84 40 38.9 |
| *G* | 200 3 18.8 | 200 5 22.1 | 200 7 25.5 | 200 9 28.8 | 200 11 32.2 |

| | Mittl. Zeit Berlin | O. L. Gr. | Breite |
|---|---|---|---|
| Beginn der Finsternis überhaupt . . | 14h 13m.0 | 73° 45′ | +38° 10′ |
| Beginn der ringförmigen Finsternis . | 15 17.4 | 59 45 | +44 41 |
| Beginn der zentralen Finsternis . . | 15 19.1 | 59 47 | +45 3 |
| Zentrale Finsternis im wahren Mittag | 16 48.1 | 117 33 | +10 35 |
| Ende der zentralen Finsternis . . . | 18 54.3 | 178 2 | — 7 43 |
| Ende der ringförmigen Finsternis . . | 18 56.0 | 177 56 | — 7 58 |
| Ende der Finsternis überhaupt . . . | 20 0.3 | 163 8 | —14 27 |

## Grenzkurven für die Sichtbarkeit der Finsternis.

| Westl. Grenze | | Südl. Grenze | | Östl. Grenze | | Nördl. Grenze | |
|---|---|---|---|---|---|---|---|
| O. L. Gr. | Br. | O. L. Gr. | Br. | O. L. Gr. | Br. | O. L. Gr. | Br. |
| 121° 15′ | +79° 38′ | 53° 53′ | +12° 59′ | 183° 29′ | −39° 39′ | 181° 49′ | +34° 50′ |
| 75 21 | 75 15 | 62 38 | 10 10 | 191 26 | 34 38 | 170 33 | 33 32 |
| 54 30 | 64 57 | 73 46 | + 5 26 | 193 16 | 26 16 | 163 20 | 34 8 |
| 48 11 | 56 27 | 82 52 | − 0 40 | 193 45 | 18 57 | 157 8 | 36 5 |
| 45 44 | 50 37 | 90 27 | 7 53 | 193 50 | 13 33 | 151 38 | 39 28 |
| 44 34 | 46 33 | 97 25 | 15 52 | 193 47 | 9 33 | 146 27 | 44 23 |
| 43 52 | 43 6 | 104 53 | 23 57 | 193 40 | 6 2 | 141 3 | 51 2 |
| 43 18 | 39 9 | 113 42 | 31 8 | 193 27 | − 1 51 | 134 48 | 59 39 |
| 42 56 | 33 48 | 124 3 | 36 38 | 193 1 | + 4 13 | 126 55 | 70 35 |
| 43 17 | 26 29 | 135 44 | 40 16 | 192 0 | 13 15 | 121 15 | +79 38 |
| 45 29 | 18 4 | 148 27 | 42 9 | 189 29 | 25 26 | | |
| 53 53 | +12 59 | 162 3 | 42 27 | 181 49 | +34 50 | | |
| | | 183 29 | −39 39 | | | | |

## Kurve der zentralen Verfinsterung.

| Mittl. Berl. Zeit | O. L. Gr. | Br. | Dauer der ringförmigen Verfinsterung |
|---|---|---|---|
| 15h 19.1m | 59° 47′ | +45° 3′ | |
| 15 20.0 | 69 35 | 42 40 | 3m 21s |
| 15 25.3 | 82 16 | 38 24 | 3 23 |
| 15 36.4 | 93 29 | 32 46 | 3 27 |
| 15 54.3 | 103 0 | 25 54 | 3 31 |
| 16 18.8 | 110 52 | 18 17 | 3 35 |
| 16 48.1 | 117 33 | 10 35 | 3 39 |
| 17 18.9 | 123 51 | + 3 33 | 3 42 |
| 17 47.9 | 130 36 | − 2 15 | 3 43 |
| 18 12.8 | 138 22 | 6 29 | 3 41 |
| 18 32.4 | 147 28 | 9 3 | 3 35 |
| 18 46.1 | 158 4 | 9 54 | 3 28 |
| 18 53.2 | 170 16 | 9 1 | 3 21 |
| 18 54.3 | 178 2 | − 7 43 | |

Die Finsternis wird demnach in fast ganz Asien und Australien und im westlichen Teil des Stillen Ozeans sichtbar sein.

## Verzeichnis von Fixsternen, welche im Jahre 1911 vom Monde bedeckt werden.

| Nr. | Name | Gr. | Mittl. AR. 1911.0 | Mittl. Dekl. 1911.0 |
|---|---|---|---|---|
| | | | h m s | ° ′ ″ |
| 1 | $\zeta^1$ Piscium . . . . | 4.8 | 1 9 4.81 | + 7 6 17.8 |
| 2 | μ Piscium . . . . | 5.0 | 1 25 31.23 | + 5 41 8.2 |
| 3 | o Piscium . . . . | 4.3 | 1 40 41.51 | + 8 42 36.4 |
| 4 | π Arietis . . . . . | 5.5 | 2 44 19.40 | +17 5 40.7 |
| 5 | δ Arietis . . . . . | 4.3 | 3 6 32.21 | +19 23 26.5 |
| 6 | ζ Arietis . . . . . | 4.5 | 3 9 46.97 | +20 42 54.5 |
| 7 | $\tau^1$ Arietis . . . . . | 5.0 | 3 16 5.17 | +20 49 36.4 |
| 8 | $\tau^2$ Arietis . . . . . | 5.4 | 3 17 37.75 | +20 25 27.8 |
| 9 | 13 Tauri . . . . . | 5.5 | 3 37 10.83 | +19 24 56.8 |
| 10 | $A^1$ Tauri . . . . . . | 4.6 | 3 59 25.88 | +21 50 22.0 |
| 11 | χ Tauri praec. . . | 5.5 | 4 17 9.87 | +25 25 11.8 |
| 12 | $\varkappa^1$ Tauri . . . . . . | 4.6 | 4 20 3.74 | +22 5 27.4 |
| 13 | $\upsilon^1$ Tauri . . . . . . | 4.6 | 4 20 58.79 | +22 36 44.7 |
| 14 | 136 Tauri . . . . . . | 5.3 | 5 47 44.03 | +27 35 31.1 |
| 15 | 139 Tauri . . . . . . | 5.4 | 5 52 28.31 | +25 56 37.1 |
| 16 | 49 Aurigae . . . . | 5.5 | 6 29 35.79 | +28 5 32.7 |
| 17 | ι Geminorum . . | 3.8 | 7 20 12.06 | +27 58 32.7 |
| 18 | $b^1$ Geminorum . . | 5.2 | 7 23 47.86 | +28 18 8.3 |
| 19 | $b^2$ Geminorum . . | 5.0 | 7 24 16.73 | +28 6 1.5 |
| 20 | υ Geminorum . . | 4.4 | 7 30 26.43 | +27 5 39.4 |
| 21 | φ Geminorum . . | 5.0 | 7 48 3.18 | +26 59 49.0 |
| 22 | ξ Cancri . . . . . | 5.0 | 9 4 14.72 | +22 24 21.7 |
| 23 | η Leonis . . . . . | 3.4 | 10 2 28.95 | +17 11 49.3 |
| 24 | *l* Leonis . . . . . | 5.4 | 10 44 34.83 | +11 0 58.9 |
| 25 | ν Virginis . . . . | 4.4 | 11 41 17.13 | + 7 1 41.5 |
| 26 | η Virginis . . . . | 3.7 | 12 15 21.12 | — 0 10 20.2 |
| 27 | γ Virginis med. . | 3.5 | 12 37 8.99 | — 0 57 41.2 |
| 28 | ϑ Virginis . . . . | 4.3 | 13 5 20.43 | — 5 3 50.8 |
| 29 | $l^2$ Virginis . . . . | 5.0 | 13 27 20.18 | — 5 47 47.4 |

## Verzeichnis von Fixsternen, welche im Jahre 1911 vom Monde bedeckt werden.

| Nr. | Name | Gr. | Mittl. AR. 1911.0 | Mittl. Dekl. 1911.0 |
|---|---|---|---|---|
| | | | h m s | ° ′ ″ |
| 30 | *h* Virginis . . . . | 5.0 | 13 28 16.70 | — 9 42 24.0 |
| 31 | λ Virginis . . . . | 4.6 | 14 14 17.47 | —12 57 42.7 |
| 32 | α Librae . . . . . | 2.7 | 14 45 57.13 | —15 40 20.9 |
| 33 | ι Librae . . . . . | 4.6 | 15 7 8.71 | —19 27 19.9 |
| 34 | κ Librae . . . . . | 5.0 | 15 36 48.95 | —19 23 26.6 |
| 35 | δ Scorpii . . . . . | 2.3 | 15 55 4.09 | —22 22 9.0 |
| 36 | σ Scorpii . . . . . | 3.1 | 16 15 46.56 | —25 22 48.1 |
| 37 | ρ Ophiuchi . . . . | 5.0 | 16 20 14.71 | —23 14 31.1 |
| 38 | 22 Scorpii . . . . . | 5.0 | 16 24 47.91 | —24 55 11.3 |
| 39 | *A* Ophiuchi . . . . | 5.0 | 17 9 52.33 | —26 28 22.8 |
| 40 | ϑ Ophiuchi . . . . | 3.2 | 17 16 32.52 | —24 54 41.3 |
| 41 | *X* Sagittarii . . . . | var. | 17 41 57.48 | —27 47 51.4 |
| 42 | *BAC* 6127 . . . . . | 5.0 | 18 2 26.76 | —28 28 3.2 |
| 43 | φ Sagittarii . . . . | 3.6 | 18 40 5.77 | —27 4 58.8 |
| 44 | σ Sagittarii . . . . | 2.1 | 18 49 44.83 | —26 24 29.1 |
| 45 | τ Sagittarii . . . . | 3.7 | 19 1 23.09 | —27 48 4.5 |
| 46 | ω Sagittarii . . . . | 5.0 | 19 50 23.36 | —26 32 10.4 |
| 47 | *b* Sagittarii . . . . | 5.0 | 19 51 29.24 | —27 24 23.7 |
| 48 | *A* Sagittarii . . . . | 5.0 | 19 53 31.92 | —26 26 13.4 |
| 49 | 33 Capricorni . . . | 5.5 | 21 19 6.86 | —21 13 49.9 |
| 50 | ε Capricorni . . . | 4.7 | 21 32 5.94 | —19 51 55.0 |
| 51 | κ Capricorni . . . | 5.2 | 21 37 41.41 | —19 16 20.5 |
| 52 | $\tau^2$ Aquarii . . . . | 4.0 | 22 44 52.86 | —14 3 45.3 |
| 53 | $\psi^1$ Aquarii . . . . | 4.7 | 23 11 13.80 | — 9 34 21.5 |
| 54 | χ Aquarii . . . . | 5.3 | 23 12 14.19 | — 8 12 43.3 |
| 55 | $\psi^2$ Aquarii . . . . | 4.7 | 23 13 16.74 | — 9 40 6.3 |
| 56 | $\psi^3$ Aquarii . . . . | 5.0 | 23 14 19.97 | —10 5 51.0 |
| 57 | 27 Piscium . . . . | 5.1 | 23 54 7.00 | — 4 2 59.2 |
| 58 | 29 Piscium . . . . | 5.3 | 23 57 15.77 | — 3 31 22.4 |

## Elemente der Sternbedeckungen 1911.

| Nr. | Zeit der Konj. in AR. | $q$ | $p'$ | $q'$ | Nr. | Zeit der Konj. in AR. | $q$ | $p'$ | $q'$ |
|---|---|---|---|---|---|---|---|---|---|
| | Jan. | | | | | Jan. | | | |
| | d h m | | | | | d h m | | | |
| 49 | 3 3 54.0 | +0.2608 | 5393 | +1710 | 44 | 27 16 16.7 | −0.7605 | 5566 | +0202 |
| 50 | 3 9 58.0 | −0.1339 | 5369 | +1820 | 45 | 27 21 21.7 | +0.8972 | 5571 | +0332 |
| 51 | 3 12 35.8 | −0.2845 | 5358 | +1866 | | | | | |
| 52 | 4 20 59.7 | +1.0106 | 5235 | +2328 | | Febr. | | | |
| 53 | 5 10 2.6 | −0.6003 | 5201 | +2461 | 52 | 1 2 59.1 | +1.2010 | 5280 | +2370 |
| 55 | 5 11 3.8 | −0.2478 | 5200 | +2469 | 53 | 1 15 52.3 | −0.3752 | 5242 | +2499 |
| 56 | 5 11 35.4 | +0.3332 | 5199 | +2474 | 55 | 1 16 52.8 | −0.0222 | 5241 | +2508 |
| 57 | 6 7 29.8 | −0.9240 | 5181 | +2610 | 56 | 1 17 24.0 | +0.5573 | 5239 | +2512 |
| 58 | 6 9 4.4 | −1.0605 | 5181 | +2617 | 57 | 2 13 7.4 | −0.6617 | 5210 | +2639 |
| 2 | 8 4 34.4 | +0.9960 | 5300 | +2630 | 58 | 2 14 41.3 | −0.7956 | 5208 | +2646 |
| 3 | 8 11 46.7 | −0.2073 | 5341 | +2592 | 2 | 4 10 11.7 | +1.3020 | 5281 | +2624 |
| ♄ | 8 18 6.0 | +1.0750 | 5379 | +2546 | 3 | 4 17 28.0 | +0.0934 | 5314 | +2583 |
| 9 | 10 14 54.7 | +0.8570 | 5759 | +1921 | ♄ | 5 1 36.7 | +1.3340 | 5331 | +2508 |
| 10 | 10 23 49.8 | +0.0667 | 5840 | +1723 | 4 | 5 22 49.1 | −1.2790 | 5494 | +2276 |
| 12 | 11 7 53.6 | +1.1260 | 5911 | +1524 | 9 | 6 21 37.0 | +1.1308 | 5672 | +1881 |
| 13 | 11 8 14.8 | +0.6613 | 5914 | +1514 | 10 | 7 6 47.6 | +0.3153 | 5746 | +1683 |
| 14 | 12 16 31.2 | −0.8946 | 6112 | +0544 | 13 | 7 15 28.0 | +0.9048 | 5814 | +1474 |
| 15 | 12 18 14.1 | +0.8278 | 6116 | +0487 | 14 | 9 0 47.2 | −0.7420 | 6003 | +0514 |
| 16 | 13 7 36.9 | −0.9522 | 6131 | +0036 | 15 | 9 2 33.4 | +1.0028 | 6009 | +0458 |
| 20 | 14 5 41.8 | −0.7026 | 6066 | −0699 | 16 | 9 16 21.4 | −0.8348 | 6033 | +0012 |
| 21 | 14 12 13.3 | −1.1295 | 6026 | −0902 | 17 | 10 11 12.0 | −1.2715 | 5999 | −0595 |
| 22 | 15 17 48.2 | −0.4132 | 5769 | −1689 | 20 | 10 15 3.2 | −0.6351 | 5986 | −0715 |
| 23 | 16 18 32.9 | +0.1122 | 5514 | −2146 | 21 | 10 21 44.1 | −1.0832 | 5953 | −0917 |
| 25 | 18 17 55.6 | −0.6354 | 5120 | −2550 | 22 | 12 3 50.3 | −0.4386 | 5737 | −1708 |
| 27 | 19 23 23.2 | +0.3177 | 4994 | −2565 | 23 | 13 4 45.5 | +0.0185 | 5513 | −2172 |
| 28 | 20 14 40.3 | +0.8670 | 4963 | −2517 | 25 | 15 3 51.6 | −0.8526 | 5164 | −2593 |
| 29 | 21 2 40.1 | −1.3222 | 4958 | −2456 | 27 | 16 8 52.3 | +0.0363 | 5044 | −2606 |
| 31 | 22 4 8.7 | +0.4962 | 4996 | −2261 | 28 | 16 23 53.5 | +0.5596 | 5013 | −2555 |
| ♃ | 22 18 42.3 | −1.0408 | 4997 | −2096 | 31 | 18 12 44.8 | +0.1633 | 5033 | −2282 |
| 32 | 22 20 59.3 | −0.1783 | 5050 | −2082 | 32 | 19 5 22.2 | −0.5081 | 5078 | −2094 |
| 34 | 23 23 8.6 | −1.0662 | 5174 | −1725 | 35 | 20 16 19.1 | +0.4224 | 5224 | −1570 |
| 35 | 24 8 13.2 | +0.7352 | 5224 | −1576 | 37 | 21 4 31.8 | −0.3945 | 5283 | −1346 |
| 37 | 24 20 28.2 | −0.0960 | 5291 | −1356 | 38 | 21 6 42.5 | +1.1730 | 5295 | −1303 |
| 39 | 25 19 46.1 | +0.8622 | 5419 | −0877 | 39 | 22 3 49.7 | +0.5933 | 5398 | −0861 |
| 40 | 25 22 49.4 | −1.1198 | 5432 | −0809 | 41 | 22 18 25.8 | +1.0388 | 5459 | −0525 |
| 43 | 27 12 3.4 | −0.0857 | 5559 | +0095 | 43 | 23 20 15.3 | −0.2881 | 5530 | +0113 |

# Elemente der Sternbedeckungen 1911.

| Nr. | Zeit der Konj. in AR. | q | p' | q' |
|---|---|---|---|---|
| | **Febr.** | | | |
| | d h m | | | |
| 44 | 24 0 29.6 | −0.9550 | 5536 | +0220 |
| 45 | 24 5 35.7 | +0.7125 | 5541 | +0350 |
| 46 | 25 3 4.0 | +0.6653 | 5538 | +0891 |
| 48 | 25 4 26.9 | +0.6827 | 5538 | +0922 |
| | **März** | | | |
| 3 | 3 23 28.3 | +0.3367 | 5369 | +2623 |
| 4 | 5 4 23.7 | −1.0065 | 5524 | +2295 |
| 5 | 5 14 4.1 | −1.1868 | 5589 | +2136 |
| 8 | 5 18 48.9 | −1.2400 | 5620 | +2049 |
| 10 | 6 12 13.3 | +0.5839 | 5736 | +1679 |
| 13 | 6 20 55.6 | +1.1710 | 5791 | +1466 |
| 14 | 8 6 37.8 | −0.5139 | 5939 | +0498 |
| 15 | 8 8 25.8 | +1.2442 | 5943 | +0442 |
| 16 | 8 22 30.5 | −0.6283 | 5951 | −0002 |
| 17 | 9 17 48.3 | −1.0995 | 5910 | −0603 |
| 20 | 9 21 45.5 | −0.4621 | 5892 | −0722 |
| 21 | 10 4 37.0 | −0.9272 | 5860 | −0921 |
| 22 | 11 11 31.5 | −0.3336 | 5649 | −1704 |
| 23 | 12 13 2.3 | +0.0704 | 5449 | −2172 |
| 25 | 14 12 49.3 | −0.9240 | 5149 | −2609 |
| 27 | 15 17 55.1 | −0.1002 | 5054 | −2632 |
| 28 | 16 8 53.6 | +0.3918 | 5035 | −2585 |
| 31 | 17 21 28.4 | −0.0617 | 5065 | −2309 |
| 32 | 18 13 56.3 | −0.7480 | 5109 | −2117 |
| 33 | 19 0 46.1 | +1.1938 | 5146 | −1969 |
| 35 | 20 0 36.4 | +0.1640 | 5241 | −1579 |
| 37 | 20 12 45.5 | −0.6532 | 5294 | −1350 |
| 38 | 20 14 55.8 | +0.9144 | 5301 | −1306 |
| 39 | 21 12 1.5 | +0.3403 | 5388 | −0858 |
| 41 | 22 2 39.8 | +0.7940 | 5438 | −0519 |
| 42 | 22 11 53.2 | +1.1561 | 5461 | −0296 |
| 43 | 23 4 39.6 | −0.5186 | 5490 | +0120 |
| 44 | 23 8 56.2 | −1.1842 | 5493 | +0227 |
| 45 | 23 14 5.3 | +0.4938 | 5496 | +0356 |
| 46 | 24 11 47.9 | +0.4688 | 5486 | +0892 |

| Nr. | Zeit der Konj. in AR. | q | p' | q' |
|---|---|---|---|---|
| | **März** | | | |
| | d h m | | | |
| 48 | 24 13 11.7 | +0.4880 | 5485 | +0926 |
| 49 | 26 3 49.7 | +0.1673 | 5405 | +1780 |
| 50 | 26 9 49.1 | −0.1840 | 5389 | +1894 |
| 51 | 26 12 24.5 | −0.3156 | 5380 | +1942 |
| 52 | 27 20 3.9 | +1.1768 | 5310 | +2431 |
| | **April** | | | |
| ♀ | 1 6 38.8 | −0.2317 | 5110 | +2246 |
| 4 | 1 11 40.5 | −0.8532 | 5609 | +2344 |
| 5 | 1 21 4.1 | −1.0212 | 5673 | +2180 |
| 8 | 2 1 40.8 | −1.0695 | 5703 | +2090 |
| 10 | 2 18 36.9 | +0.7435 | 5814 | +1709 |
| 14 | 4 12 10.2 | −0.3344 | 5974 | +0501 |
| 16 | 5 3 53.4 | −0.4517 | 5965 | −0004 |
| 17 | 5 23 7.8 | −0.9305 | 5895 | −0606 |
| 19 | 6 0 42.3 | −1.1573 | 5886 | −0654 |
| 20 | 6 3 5.4 | −0.2949 | 5872 | −0725 |
| 21 | 6 9 58.5 | −0.7645 | 5830 | −0924 |
| 22 | 7 17 12.3 | −0.1930 | 5592 | −1699 |
| 23 | 8 19 9.6 | +0.1872 | 5384 | −2160 |
| 25 | 10 19 52.5 | −0.8812 | 5096 | −2598 |
| 27 | 12 1 24.7 | −0.0966 | 5020 | −2631 |
| 28 | 12 16 32.6 | +0.3753 | 5012 | −2588 |
| 31 | 14 5 17.8 | −0.1274 | 5070 | −2323 |
| 32 | 14 21 45.5 | −0.8318 | 5122 | −2132 |
| 33 | 15 8 34.0 | +1.1030 | 5163 | −1983 |
| 35 | 16 8 19.9 | +0.0560 | 5260 | −1591 |
| 37 | 16 20 26.7 | −0.7680 | 5310 | −1360 |
| 38 | 16 22 36.6 | +0.8002 | 5320 | −1316 |
| 39 | 17 19 40.3 | +0.2190 | 5396 | −0862 |
| 41 | 18 10 19.4 | +0.6720 | 5439 | −0520 |
| 42 | 18 19 34.4 | +1.0350 | 5455 | −0297 |
| 43 | 19 12 26.8 | −0.6467 | 5469 | +0120 |
| 45 | 19 21 57.6 | +0.3722 | 5468 | +0356 |
| 46 | 20 19 56.4 | +0.3515 | 5440 | +0888 |
| 48 | 20 21 21.5 | +0.3712 | 5438 | +0921 |

## Elemente der Sternbedeckungen 1911.

| Nr. | Zeit der Konj. in AR. | q | p' | q' |
|---|---|---|---|---|
| | **April** | | | |
| | d h m | | | |
| 49 | 22 12 41.7 | +0.0635 | 5338 | +1763 |
| 50 | 22 18 48.4 | −0.2873 | 5319 | +1876 |
| 51 | 22 21 27.0 | −0.4186 | 5312 | +1923 |
| 52 | 24 5 43.7 | +1.1067 | 5250 | +2412 |
| 53 | 24 18 33.7 | −0.3896 | 5244 | +2556 |
| 55 | 24 19 33.7 | −0.0339 | 5243 | +2565 |
| 56 | 24 20 4.6 | +0.5434 | 5243 | +2570 |
| 57 | 25 15 27.5 | −0.5530 | 5260 | +2720 |
| 58 | 25 16 59.1 | −0.6763 | 5264 | +2729 |
| | **Mai** | | | |
| 14 | 1 19 32.5 | −0.2784 | 6078 | +0512 |
| 16 | 2 10 46.2 | −0.3922 | 6060 | −0003 |
| 17 | 3 5 28.5 | −0.8648 | 5972 | −0615 |
| 18 | 3 6 49.7 | −1.2808 | 5963 | −0657 |
| 19 | 3 7 0.6 | −1.0892 | 5963 | −0662 |
| 20 | 3 9 20.3 | −0.2369 | 5944 | −0734 |
| 21 | 3 16 3.8 | −0.7019 | 5895 | −0935 |
| 22 | 4 22 46.7 | −0.1396 | 5617 | −1708 |
| 23 | 6 0 34.6 | +0.2340 | 5378 | −2159 |
| 25 | 8 1 33.0 | −0.8510 | 5056 | −2582 |
| 27 | 9 7 25.9 | −0.0739 | 4981 | −2613 |
| 28 | 9 22 44.8 | +0.3957 | 4976 | −2572 |
| 31 | 11 11 52.2 | −0.1174 | 5048 | −2314 |
| 32 | 12 4 26.4 | −0.8260 | 5111 | −2128 |
| 33 | 12 15 17.9 | +1.1132 | 5156 | −1982 |
| 35 | 13 15 7.0 | +0.0630 | 5268 | −1593 |
| 37 | 14 3 14.1 | +0.7623 | 5324 | −1362 |
| 38 | 14 5 24.0 | +0.8092 | 5331 | −1318 |
| 39 | 15 2 27.1 | +0.2288 | 5411 | −0863 |
| 41 | 15 17 5.9 | +0.6847 | 5448 | −0520 |
| 42 | 16 2 21.2 | +1.0505 | 5465 | −0295 |
| 43 | 16 19 15.6 | −0.6331 | 5473 | +0122 |
| 45 | 17 4 48.7 | +0.3914 | 5466 | +0358 |
| 46 | 18 2 57.1 | +0.3761 | 5422 | +0887 |
| 48 | 18 4 23.1 | +0.3964 | 5419 | +0920 |

| Nr. | Zeit der Konj. in AR. | q | p' | q' |
|---|---|---|---|---|
| | **Mai** | | | |
| | d h m | | | |
| 49 | 19 20 18.9 | +0.0954 | 5283 | +1748 |
| 50 | 20 2 33.2 | −0.2579 | 5264 | +1858 |
| 51 | 20 5 15.2 | −0.3902 | 5254 | +1904 |
| 52 | 21 14 19.9 | +1.1567 | 5175 | +2377 |
| 53 | 22 3 31.0 | −0.3570 | 5164 | +2517 |
| 55 | 22 4 32.6 | +0.0028 | 5164 | +2526 |
| 56 | 22 5 4.3 | +0.5869 | 5163 | +2531 |
| 57 | 23 0 58.6 | −0.5236 | 5182 | +2679 |
| 58 | 23 2 32.5 | −0.6485 | 5186 | +2687 |
| 3 | 25 4 9.6 | +0.4514 | 5430 | +2676 |
| 16 | 29 19 57.7 | −0.4322 | 6164 | −0009 |
| 17 | 30 14 4.2 | −0.9076 | 6078 | −0631 |
| 19 | 30 15 33.2 | −1.1295 | 6072 | −0680 |
| 20 | 30 17 48.3 | −0.2919 | 6054 | −0753 |
| 21 | 31 0 18.6 | −0.7532 | 6001 | −0957 |
| | **Juni** | | | |
| 22 | 1 6 3.4 | −0.2159 | 5704 | −1738 |
| 23 | 2 7 10.4 | +0.1425 | 5439 | −2186 |
| 25 | 4 7 22.4 | −0.9398 | 5070 | −2585 |
| 27 | 5 13 7.5 | −0.1588 | 4971 | −2604 |
| 28 | 6 4 27.1 | +0.3180 | 4959 | −2557 |
| 31 | 7 17 43.5 | −0.1673 | 5027 | −2297 |
| 24 | 7 17 59.8 | −1.1048 | 5061 | −2304 |
| 32 | 8 10 22.9 | −0.8616 | 5090 | −2110 |
| 33 | 8 21 17.6 | +1.0910 | 5140 | −1966 |
| 35 | 9 21 12.2 | +0.0632 | 5260 | −1580 |
| 37 | 10 9 21.1 | −0.7504 | 5319 | −1350 |
| 38 | 10 11 31.2 | +0.8254 | 5331 | −1307 |
| 39 | 11 8 35.2 | +0.2665 | 5419 | −0853 |
| 41 | 11 23 13.7 | +0.7381 | 5460 | −0510 |
| 42 | 12 8 28.4 | +1.1138 | 5478 | −0285 |
| 43 | 13 1 21.6 | −0.5538 | 5489 | +0133 |
| 44 | 13 5 41.0 | −1.2215 | 5488 | +0240 |
| 45 | 13 10 54.2 | +0.4819 | 5482 | +0369 |
| 46 | 14 9 3.0 | +0.4897 | 5432 | +0898 |

# Elemente der Sternbedeckungen 1911.

| Nr. | Zeit der Konj. in AR. | q | p' | q' |
|---|---|---|---|---|
| | **Juni** | | | |
| | d h m | | | |
| 48 | 14 10 29.0 | +0.5111 | 5430 | +0931 |
| 49 | 16 2 37.5 | +0.2466 | 5270 | +1750 |
| 50 | 16 8 55.7 | −0.1041 | 5245 | +1858 |
| 51 | 16 11 39.6 | −0.2353 | 5232 | +1903 |
| 52 | 17 21 16.9 | +1.3450 | 5124 | +2358 |
| 53 | 18 10 45.8 | −0.1819 | 5105 | +2489 |
| 55 | 18 11 48.9 | +0.1823 | 5104 | +2498 |
| 56 | 18 12 21.4 | +0.7736 | 5104 | +2502 |
| 57 | 19 8 47.5 | −0.3527 | 5109 | +2639 |
| 58 | 19 10 24.2 | −0.4796 | 5111 | +2647 |
| ♂ | 20 13 37.4 | −0.2037 | 4925 | +2592 |
| 3 | 21 13 31.4 | +0.5963 | 5346 | +2623 |
| 4 | 22 18 3.1 | −0.7270 | 5602 | +2328 |
| 5 | 23 3 23.7 | −0.9050 | 5698 | +2176 |
| 8 | 23 7 56.7 | −0.9582 | 5745 | +2091 |
| 10 | 24 0 28.1 | +0.8054 | 5916 | +1722 |
| 22 | 28 15 25.1 | −0.3578 | 5797 | −1779 |
| 23 | 29 15 48.2 | −0.0396 | 5530 | −2232 |
| | **Juli** | | | |
| 25 | 1 14 41.1 | −1.1505 | 5130 | −2619 |
| 27 | 2 20 0.0 | −0.3831 | 5010 | −2621 |
| 28 | 3 10 55.9 | +0.0955 | 4987 | −2565 |
| ♃ | 4 22 14.4 | −1.0532 | 5024 | −2302 |
| 31 | 4 23 53.0 | −0.3548 | 5027 | −2286 |
| 32 | 5 16 28.9 | −1.0262 | 5084 | −2096 |
| 33 | 6 3 22.5 | +0.9378 | 5132 | −1948 |
| 35 | 7 3 16.9 | −0.0495 | 5247 | −1561 |
| 37 | 7 15 26.2 | −0.8416 | 5308 | −1330 |
| 38 | 7 17 36.4 | +0.7365 | 5320 | −1287 |
| 39 | 8 14 40.7 | +0.2159 | 5414 | −0835 |
| 41 | 9 5 18.6 | +0.7138 | 5460 | −0492 |
| 42 | 9 14 32.6 | +1.1063 | 5482 | −0267 |
| 43 | 10 7 23.6 | −0.5283 | 5499 | +0152 |
| 44 | 10 11 42.3 | −1.1870 | 5499 | +0260 |
| 45 | 10 16 54.4 | +0.5242 | 5494 | +0389 |

| Nr. | Zeit der Konj. in AR. | q | p' | q' |
|---|---|---|---|---|
| | **Juli** | | | |
| | d h m | | | |
| 46 | 11 14 58.1 | +0.5739 | 5452 | +0920 |
| 48 | 11 16 23.8 | +0.5981 | 5449 | +0954 |
| 49 | 13 8 23.5 | +0.4093 | 5289 | +1773 |
| 50 | 13 14 41.0 | +0.0693 | 5260 | +1880 |
| 51 | 13 17 24.7 | −0.0571 | 5249 | +1924 |
| 53 | 15 16 39.9 | +0.0645 | 5093 | +2493 |
| 54 | 15 17 11.1 | −1.2600 | 5091 | +2497 |
| 55 | 15 17 43.5 | +0.4318 | 5091 | +2502 |
| 56 | 15 18 16.3 | +1.0268 | 5089 | +2506 |
| 57 | 16 14 57.0 | −0.0896 | 5077 | +2628 |
| 58 | 16 16 35.1 | −0.2165 | 5077 | +2634 |
| 3 | 18 20 50.4 | +0.8630 | 5269 | +2580 |
| 4 | 20 2 13.7 | −0.5161 | 5508 | +2278 |
| 5 | 20 11 51.9 | −0.7127 | 5604 | +2125 |
| 7 | 20 15 54.5 | −1.3137 | 5644 | +2053 |
| 8 | 20 16 33.4 | −0.7752 | 5650 | +2040 |
| 10 | 21 9 34.8 | +0.9810 | 5823 | +1676 |
| 14 | 23 2 0.8 | −0.2617 | 6130 | +0469 |
| 25 | 28 23 43.1 | −1.3917 | 5204 | −2669 |
| 27 | 30 4 9.1 | −0.6669 | 5073 | −2660 |
| 28 | 30 18 54.4 | −0.2022 | 5041 | −2596 |
| | **August** | | | |
| 31 | 1 7 9.9 | −0.6446 | 5059 | −2296 |
| ♃ | 1 8 4.2 | −1.3303 | 5030 | −2273 |
| 32 | 1 23 32.5 | −1.3002 | 5106 | −2097 |
| 33 | 2 10 19.3 | +0.6633 | 5144 | −1944 |
| 35 | 3 10 3.2 | −0.2875 | 5248 | −1548 |
| 37 | 3 22 9.3 | −1.0585 | 5304 | −1315 |
| 38 | 4 0 19.0 | +0.5184 | 5315 | −1272 |
| 39 | 4 21 20.4 | +0.0355 | 5402 | −0816 |
| 41 | 5 11 57.2 | +0.5598 | 5450 | −0473 |
| 42 | 5 21 10.6 | +0.9694 | 5472 | −0247 |
| 43 | 6 14 0.2 | −0.6278 | 5492 | +0173 |
| 45 | 6 23 29.9 | +0.4419 | 5491 | +0410 |
| 46 | 7 21 29.4 | +0.5390 | 5459 | +0944 |

## Elemente der Sternbedeckungen 1911.

| Nr. | Zeit der Konj. in AR. | q | p' | q' |
|---|---|---|---|---|
| | **August** | | | |
| | d h m | | | |
| 48 | 7 22 54.8 | +0.5665 | 5455 | +0977 |
| 49 | 9 14 39.7 | +0.4704 | 5311 | +1804 |
| 50 | 9 20 54.1 | +0.1470 | 5284 | +1913 |
| 51 | 9 23 36.4 | +0.0275 | 5275 | +1957 |
| 53 | 11 22 27.3 | +0.2553 | 5120 | +2527 |
| 54 | 11 22 58.3 | −1.0650 | 5119 | +2531 |
| 55 | 11 23 30.5 | +0.6236 | 5117 | +2534 |
| 56 | 12 0 3.0 | +1.2182 | 5117 | +2538 |
| 57 | 12 20 36.1 | +0.1424 | 5097 | +2655 |
| 58 | 12 22 13.8 | +0.0181 | 5097 | +2661 |
| 1 | 14 10 58.4 | −1.2743 | 5170 | +2658 |
| 3 | 15 2 35.8 | +1.1519 | 5246 | +2574 |
| 4 | 16 8 24.1 | −0.2440 | 5456 | +2253 |
| 5 | 16 18 14.0 | −0.4508 | 5539 | +2096 |
| 7 | 16 22 22.0 | −1.0632 | 5574 | +2022 |
| 8 | 16 23 1.8 | −0.5189 | 5582 | +2010 |
| 10 | 17 16 28.7 | +1.2397 | 5737 | +1642 |
| 11 | 17 23 36.2 | −1.2752 | 5801 | +1468 |
| 14 | 19 10 5.9 | −0.0883 | 6031 | +0444 |
| 16 | 20 1 25.3 | −0.3008 | 6067 | −0070 |
| 17 | 20 19 54.8 | −0.8908 | 6042 | −0691 |
| 19 | 20 21 24.8 | −1.1225 | 6039 | −0740 |
| 20 | 20 23 41.2 | −0.2944 | 6030 | −0814 |
| 21 | 21 6 13.7 | −0.7974 | 5999 | −1021 |
| 26 | 26 2 30.9 | +1.2930 | 5161 | −2725 |
| 27 | 26 13 35.3 | −0.8888 | 5125 | −2703 |
| 28 | 27 4 4.7 | −0.4497 | 5096 | −2638 |
| 30 | 27 15 56.2 | +1.3950 | 5088 | −2557 |
| 31 | 28 15 39.2 | −0.9215 | 5110 | −2324 |
| 33 | 29 18 21.6 | +0.3738 | 5181 | −1958 |
| 35 | 30 17 47.8 | −0.5629 | 5268 | −1551 |
| 38 | 31 7 56.1 | +0.2496 | 5322 | −1268 |
| | **Sept.** | | | |
| 39 | 1 4 50.5 | −0.2118 | 5397 | −0806 |
| 41 | 1 19 25.0 | +0.3281 | 5439 | −0460 |

| Nr. | Zeit der Konj. in AR. | q | p' | q' |
|---|---|---|---|---|
| | **Sept.** | | | |
| | d h m | | | |
| 42 | 2 4 37.9 | +0.7487 | 5456 | −0234 |
| 43 | 2 21 27.8 | −0.8234 | 5471 | +0186 |
| 45 | 3 6 58.2 | +0.2594 | 5471 | +0424 |
| 46 | 4 4 59.2 | +0.3917 | 5441 | +0958 |
| 48 | 4 6 24.6 | +0.4215 | 5438 | +0992 |
| 49 | 5 22 6.4 | +0.4011 | 5312 | +1826 |
| 50 | 6 4 19.1 | +0.0919 | 5291 | +1936 |
| 51 | 6 7 0.6 | −0.0214 | 5282 | +1982 |
| 53 | 8 5 25.1 | +0.3096 | 5154 | +2566 |
| 54 | 8 5 55.7 | −1.0002 | 5152 | +2570 |
| 55 | 8 6 27.5 | +0.6777 | 5152 | +2574 |
| 56 | 8 6 59.6 | +1.2694 | 5150 | +2578 |
| 57 | 9 3 14.9 | +0.2457 | 5139 | +2699 |
| 58 | 9 4 51.0 | +0.1256 | 5140 | +2705 |
| 1 | 10 17 0.8 | −1.0932 | 5217 | +2699 |
| 3 | 11 8 24.9 | +1.3407 | 5287 | +2608 |
| 4 | 12 13 55.5 | −0.0259 | 5475 | +2269 |
| 5 | 12 23 42.7 | −0.2297 | 5549 | +2105 |
| 6 | 13 1 7.1 | −1.2870 | 5559 | +2080 |
| 7 | 13 3 50.1 | −0.8421 | 5582 | +2029 |
| 8 | 13 4 29.9 | −0.2977 | 5588 | +2017 |
| 11 | 14 5 8.4 | −1.0620 | 5776 | +1460 |
| 14 | 15 16 5.9 | +0.1101 | 5964 | +0431 |
| 16 | 16 7 44.9 | −0.1188 | 5983 | −0080 |
| 17 | 17 2 42.5 | −0.7370 | 5950 | −0693 |
| 18 | 17 4 4.0 | −1.1640 | 5944 | −0736 |
| 19 | 17 4 14.9 | −0.9734 | 5944 | −0742 |
| 20 | 17 6 35.1 | −0.1380 | 5934 | −0814 |
| 21 | 17 13 18.3 | −0.6560 | 5904 | −1019 |
| 22 | 18 19 31.7 | −0.3479 | 5704 | −1817 |
| 23 | 19 20 24.0 | −0.1946 | 5508 | −2291 |
| 31 | 25 0 37.8 | −1.0802 | 5148 | −2353 |
| 33 | 26 3 0.7 | +0.1887 | 5219 | −1980 |
| 35 | 27 2 10.3 | −0.7540 | 5300 | −1563 |
| 36 | 27 11 57.0 | +1.1160 | 5335 | −1365 |
| 38 | 27 16 10.2 | +0.0537 | 5348 | −1276 |

# Elemente der Sternbedeckungen 1911.

| Nr. | Zeit der Konj. in AR. | $q$ | $p'$ | $q'$ |
|---|---|---|---|---|
| | **Sept.** | | | |
| | d h m | | | |
| 39 | 28 12 55.8 | −0.4057 | 5409 | −0808 |
| 41 | 29 3 27.1 | +0.1369 | 5439 | −0458 |
| 42 | 29 12 39.3 | +0.5609 | 5450 | −0230 |
| 43 | 30 5 30.5 | −1.0046 | 5452 | +0191 |
| 45 | 30 15 2.9 | +0.0843 | 5448 | +0428 |
| | **Oktober** | | | |
| 46 | 1 13 11.6 | +0.2319 | 5406 | +0961 |
| 47 | 1 13 41.6 | +1.2377 | 5405 | +0972 |
| 48 | 1 14 37.6 | +0.2628 | 5402 | +0994 |
| 49 | 3 6 37.2 | +0.2793 | 5278 | +1826 |
| 50 | 3 12 52.4 | −0.0229 | 5259 | +1937 |
| 51 | 3 15 34.8 | −0.1329 | 5250 | +1983 |
| 53 | 5 14 2.8 | +0.2607 | 5155 | +2581 |
| 54 | 5 14 33.3 | −1.0437 | 5155 | +2586 |
| 55 | 5 15 4.9 | +0.6290 | 5155 | +2591 |
| 56 | 5 15 36.8 | +1.2192 | 5155 | +2595 |
| 57 | 6 11 43.0 | +0.2296 | 5161 | +2726 |
| 58 | 6 13 18.1 | +0.1126 | 5163 | +2732 |
| 1 | 8 0 53.8 | −1.0425 | 5271 | +2741 |
| 3 | 8 15 58.0 | +1.3855 | 5350 | +2652 |
| 4 | 9 20 46.1 | +0.0629 | 5550 | +2310 |
| 5 | 10 6 18.9 | −0.1317 | 5624 | +2142 |
| 6 | 10 7 41.3 | −1.1768 | 5634 | +2116 |
| 7 | 10 10 20.4 | −0.7348 | 5655 | +2063 |
| 8 | 10 10 59.2 | −0.1955 | 5659 | +2050 |
| 11 | 11 11 5.3 | −0.9428 | 5836 | +1480 |
| 14 | 12 21 32.6 | +0.2258 | 5987 | +0434 |
| 16 | 13 13 6.6 | −0.0035 | 5987 | −0081 |
| 17 | 14 8 5.9 | −0.6264 | 5926 | −0694 |
| 18 | 14 9 27.9 | −1.0552 | 5920 | −0736 |
| 19 | 14 9 48.9 | −0.8644 | 5920 | −0742 |
| 20 | 14 11 59.9 | −0.0270 | 5906 | −0814 |
| 21 | 14 18 46.4 | −0.5491 | 5867 | −1017 |
| 22 | 16 1 25.9 | −0.2542 | 5636 | −1804 |
| 23 | 17 2 49.7 | −0.1160 | 5433 | −2268 |

| Nr. | Zeit der Konj. in AR. | $q$ | $p'$ | $q'$ |
|---|---|---|---|---|
| | **Oktober** | | | |
| | d h m | | | |
| 35 | 24 10 23.8 | −0.8038 | 5328 | −1575 |
| 36 | 24 20 7.1 | +1.0632 | 5360 | −1375 |
| 38 | 25 0 18.8 | +0.0005 | 5375 | −1284 |
| 39 | 25 20 57.7 | −0.4618 | 5431 | −0812 |
| 41 | 26 11 25.9 | +0.0804 | 5452 | −0460 |
| 42 | 26 20 37.0 | +0.5047 | 5458 | −0231 |
| 43 | 27 13 28.9 | −1.0630 | 5450 | +0191 |
| 45 | 27 23 3.3 | +0.0295 | 5436 | +0428 |
| 46 | 28 21 21.3 | +0.1811 | 5379 | +0958 |
| 47 | 28 21 51.6 | +1.1912 | 5375 | +0969 |
| 48 | 28 22 48.2 | +0.2125 | 5374 | +0991 |
| 49 | 30 15 20.3 | +0.2389 | 5225 | +1811 |
| 50 | 30 21 41.6 | −0.0636 | 5202 | +1920 |
| 51 | 31 0 26.8 | −0.1735 | 5194 | +1965 |
| | **Nov.** | | | |
| 53 | 1 23 39.8 | +0.2370 | 5108 | +2561 |
| 54 | 2 0 10.7 | −1.0722 | 5108 | +2566 |
| 55 | 2 0 42.7 | +0.6071 | 5109 | +2571 |
| 56 | 2 1 15.0 | +1.1998 | 5109 | +2575 |
| 57 | 2 21 33.8 | +0.2120 | 5130 | +2712 |
| 58 | 2 23 9.7 | +0.0954 | 5133 | +2719 |
| 1 | 4 10 47.3 | −1.0468 | 5281 | +2747 |
| 3 | 5 1 43.6 | +1.3707 | 5379 | +2668 |
| 4 | 6 6 1.8 | +0.0591 | 5617 | +2337 |
| 5 | 6 15 21.0 | −0.1329 | 5699 | +2171 |
| 6 | 6 16 41.3 | −1.1655 | 5712 | +2146 |
| 7 | 6 19 16.3 | −0.7287 | 5736 | +2093 |
| 8 | 6 19 54.0 | −0.1959 | 5741 | +2080 |
| 11 | 7 19 18.3 | −0.9333 | 5937 | +1505 |
| 14 | 9 4 40.3 | +0.2147 | 6090 | +0439 |
| 16 | 9 19 46.4 | −0.0138 | 6080 | −0084 |
| 17 | 10 14 15.8 | −0.6330 | 6001 | −0704 |
| 18 | 10 15 35.9 | −1.0575 | 5994 | −0747 |
| 19 | 10 15 46.7 | −0.8684 | 5993 | −0753 |
| 20 | 10 18 4.5 | −0.0411 | 5976 | −0826 |

## Elemente der Sternbedeckungen 1911.

| Nr. | Zeit der Konj. in AR. | q | p' | q' |
|---|---|---|---|---|
| | **Nov.** | | | |
| | d h m | | | |
| 21 | 11 0 42.4 | −0.5592 | 5929 | −1030 |
| 22 | 12 6 55.5 | −0.2738 | 5656 | −1811 |
| 23 | 13 8 14.3 | −0.1401 | 5422 | −2264 |
| 26 | 16 1 43.9 | +1.2468 | 5058 | −2697 |
| ♀ | 16 7 51.4 | +1.2918 | 4673 | −2580 |
| 27 | 16 13 10.3 | −0.9962 | 5044 | −2684 |
| 28 | 17 4 2.1 | −0.5834 | 5043 | −2632 |
| 30 | 17 16 6.4 | +1.2552 | 5057 | −2559 |
| 41 | 22 18 44.8 | +0.1422 | 5472 | −0455 |
| 42 | 23 3 55.3 | +0.5731 | 5476 | −0225 |
| 43 | 23 20 46.7 | −0.9876 | 5464 | +0198 |
| 45 | 24 6 21.7 | +0.1131 | 5448 | +0435 |
| 46 | 25 4 44.8 | +0.2781 | 5372 | +0961 |
| 48 | 25 6 12.2 | +0.3104 | 5365 | +0994 |
| 49 | 26 23 12.0 | +0.3571 | 5186 | +1800 |
| 50 | 27 5 40.0 | +0.0545 | 5158 | +1905 |
| 51 | 27 8 28.3 | −0.0556 | 5145 | +1949 |
| 53 | 29 8 47.6 | +0.3620 | 5034 | +2522 |
| 54 | 29 9 19.3 | −0.9620 | 5036 | +2527 |
| 55 | 29 9 52.2 | +0.7360 | 5035 | +2531 |
| 56 | 29 10 25.4 | +1.3354 | 5035 | +2535 |
| 57 | 30 7 16.4 | +0.3285 | 5055 | +2667 |
| 58 | 30 8 54.8 | +0.2097 | 5058 | +2675 |
| | **Dez.** | | | |
| 1 | 1 21 21.0 | −0.9700 | 5224 | +2708 |
| 4 | 3 17 0.9 | +0.0899 | 5610 | +2321 |
| 5 | 4 2 19.0 | −0.1145 | 5711 | +2161 |
| 6 | 4 3 39.0 | −1.1460 | 5722 | +2136 |
| 7 | 4 6 13.1 | −0.7137 | 5752 | +2085 |
| 8 | 4 6 50.6 | −0.1834 | 5757 | +2072 |
| ♂ | 4 16 48.8 | +0.8354 | 6019 | +1873 |
| 11 | 5 5 58.3 | −0.9460 | 5991 | +1504 |
| 14 | 6 14 32.9 | +0.1470 | 6190 | +0433 |

| Nr. | Zeit der Konj. in AR. | q | p' | q' |
|---|---|---|---|---|
| | **Dez.** | | | |
| | d h m | | | |
| 16 | 7 5 10.7 | −0.0971 | 6193 | −0098 |
| 17 | 7 23 2.2 | −0.7280 | 6122 | −0730 |
| 18 | 8 0 19.4 | −1.1468 | 6112 | −0774 |
| 19 | 8 0 29.8 | −0.9614 | 6112 | −0780 |
| 20 | 8 2 42.7 | −0.1505 | 6097 | −0853 |
| 21 | 8 9 6.5 | −0.6676 | 6048 | −1060 |
| 22 | 9 14 17.1 | −0.4185 | 5757 | −1851 |
| 23 | 10 14 51.0 | −0.3075 | 5495 | −2296 |
| 24 | 11 10 4.4 | +1.3597 | 5315 | −2520 |
| 26 | 13 7 21.8 | +1.0678 | 5058 | −2691 |
| 27 | 13 18 46.8 | −1.1615 | 5032 | −2671 |
| 28 | 14 9 40.0 | −0.7377 | 5023 | −2612 |
| 30 | 14 21 47.5 | +1.1150 | 5031 | −2535 |
| 31 | 15 21 51.6 | −1.2247 | 5089 | −2313 |
| 33 | 17 0 40.1 | +0.0984 | 5199 | −1955 |
| 35 | 17 23 59.7 | −0.8056 | 5309 | −1546 |
| 46 | 22 11 13.8 | +0.4307 | 5386 | +0979 |
| 48 | 22 12 41.2 | +0.4654 | 5380 | +1012 |
| 49 | 24 5 49.3 | +0.5755 | 5180 | +1810 |
| 50 | 24 12 20.4 | +0.2800 | 5151 | +1913 |
| 51 | 24 15 10.2 | +0.1728 | 5136 | +1955 |
| 53 | 26 16 16.0 | +0.6379 | 4981 | +2499 |
| 54 | 26 16 48.5 | −0.7010 | 4980 | +2503 |
| 55 | 26 17 22.1 | +1.0168 | 4979 | +2507 |
| 57 | 27 15 19.8 | +0.6077 | 4984 | +2629 |
| 58 | 27 17 1.0 | +0.4871 | 4987 | +2636 |
| 1 | 29 6 36.4 | −0.7367 | 5131 | +2651 |
| 4 | 31 3 38.1 | +0.2621 | 5526 | +2268 |
| 5 | 31 13 10.4 | +0.0342 | 5630 | +2113 |
| 6 | 31 14 32.3 | −1.0115 | 5648 | +2088 |
| 7 | 31 17 10.0 | −0.5798 | 5676 | +2038 |
| 8 | 31 17 48.4 | −0.0458 | 5685 | +2025 |
| ♂ | 31 21 3.4 | +0.0230 | 5729 | +1960 |

## Sternbedeckungen für Berlin 1911.

| Tag | Nr. | Name | Eintritt mittl. Zeit | $Q_1$ | Austritt mittl. Zeit | $Q_2$ | Bemerkungen |
|---|---|---|---|---|---|---|---|
| | | | h m | ° | h m | ° | h m |
| Jan. 8 | 2 | μ Piscium . . | 3 15.7 | 70.3 | 4 20.9 | 221.5 | ⊙ Untg. 4 2 |
| 10 | 9 | 13 Tauri . . . | 15 32.9 | 128.7 | 16 4.3 | 206.0 | ☾ Untg. 16 16 |
| 11 | 13 | $\upsilon^1$ Tauri . . . | 7 21.0 | 92.4 | 8 24.8 | 225.3 | ☾ i. Mer. 9 2 |
| 12 | 15 | 139 Tauri . . . | 18 37.8 | 88.1 | 19 23.8 | 272.9 | ☾ Untg. 19 10 |
| 20 | 28 | ϑ Virginis . . | 13 46.5 | 185.6 | 14 20.1 | 242.8 | ☾ Aufg. 11 23 |
| 25 | 39 | *A* Ophiuchi . | 18 38.4 | 95.1 | 19 56.2 | 297.8 | ☾ Aufg. 17 25 |
| Febr. 7 | 10 | $A^1$ Tauri . . . | 6 28.4 | 26.1 | 7 22.8 | 289.9 | ☾ i. Mer. 6 53 |
| 22 | 41 | *X* Sagittarii . | 17 24.5 | 123.4 | 18 39.1 | 259.8 | ☾ Aufg. 16 18 |
| März 6 | 10 | $A^1$ Tauri . . . | 12 47.5 | 56.0 | 13 32.3 | 283.8 | ☾ Untg. 13 16 |
| 16 | 28 | ϑ Virginis. . | 7 9.1 | 102.8 | 8 4.3 | 314.3 | ☾ Aufg. 7 57 |
| 20 | 38 | 22 Scorpii . . | 13 43.7 | 127.0 | 14 57.3 | 278.9 | ☾ Aufg. 12 55 |
| Mai 12 | 33 | ι Librae . . | 15 54.5 | 123.4 | 16 59.7 | 272.3 | ☾ Untg. 16 2 |
| Juni 10 | 38 | 22 Scorpii . . | 10 57.3 | 73.8 | 12 5.5 | 323.2 | ☾ i. Mer. 11 12 |
| Juli 11 | 46 | ω Sagittarii . | 15 38.1 | 16.1 | 16 17.7 | 307.1 | ☾ Untg. 15 56 |
| Aug. 9 | 49 | 33 Capricorni | 15 26.9 | 10.0 | 16 7.1 | 295.1 | ☾ Untg. 16 13 |
| Okt. 5 | 53 | $\psi^1$ Aquarii . . | 15 7.3 | 6.2 | 15 42.5 | 292.5 | ☾ Untg. 15 30 |
| Nov. 29 | 53 | $\psi^1$ Aquarii . . | 9 39.2 | 359.4 | 10 16.8 | 292.0 | } ☾ Untg. 11 59 |
| 29 | 55 | $\psi^2$ Aquarii . . | 10 19.0 | 92.4 | 11 11.6 | 201.6 | } |
| Dez. 4 | — | Mars . . . | 17 29.4 | 134.2 | 17 57.6 | 202.7 | ☾ Untg. 19 6 |
| 24 | 49 | 33 Capricorni | 6 22.3 | 39.4 | 7 24.5 | 264.3 | ☾ Untg. 7 14 |

## TRABANT I.

| Geoz. Obere Konj. | Mittlere Zeit | $b/a$ | Geoz. Obere Konj. | Mittlere Zeit | $b/a$ | Geoz. Obere Konj. | Mittlere Zeit | $b/a$ |
|---|---|---|---|---|---|---|---|---|
| Jan. 1 | $3^h\ 53^m.7$ | −0.0531 | März 21 | $18^h\ 53^m.8$ | −0.0581 | Juni 9 | $8^h\ 30^m.7$ | −0.0544 |
| 2 | 22 23.1 | 533 | 23 | 13 20.3 | 581 | 11 | 2 57.5 | 542 |
| 4 | 16 52.3 | 534 | 25 | 7 46.8 | 581 | 12 | 21 24.3 | 540 |
| 6 | 11 21.5 | 535 | 27 | 2 13.1 | 581 | 14 | 15 51.3 | 538 |
| 8 | 5 50.7 | 536 | 28 | 20 39.5 | 582 | 16 | 10 18.3 | 537 |
| 10 | 0 19.8 | 538 | 30 | 15 5.9 | 582 | 18 | 4 45.3 | 535 |
| 11 | 18 48.8 | 540 | April 1 | 9 32.1 | 582 | 19 | 23 12.6 | 533 |
| 13 | 13 17.9 | 541 | 3 | 3 58.3 | 582 | 21 | 17 39.9 | 531 |
| 15 | 7 46.8 | 542 | 4 | 22 24.6 | 582 | 23 | 12 7.1 | 529 |
| 17 | 2 15.7 | 543 | 6 | 16 50.6 | 582 | 25 | 6 34.5 | 528 |
| 18 | 20 44.5 | 545 | 8 | 11 16.7 | 582 | 27 | 1 1.9 | 526 |
| 20 | 15 13.3 | 546 | 10 | 5 42.7 | 582 | 28 | 19 29.4 | 525 |
| 22 | 9 42.0 | 547 | 12 | 0 8.8 | 582 | 30 | 13 57.1 | 524 |
| 24 | 4 10.7 | 549 | 13 | 18 34.7 | 581 | Juli 2 | 8 24.8 | 523 |
| 25 | 22 39.2 | 551 | 15 | 13 0.8 | 581 | 4 | 2 52.5 | 521 |
| 27 | 17 7.8 | 552 | 17 | 7 26.6 | 581 | 5 | 21 20.3 | 520 |
| 29 | 11 36.3 | 553 | 19 | 1 52.6 | 581 | 7 | 15 48.2 | 518 |
| 31 | 6 4.7 | 554 | 20 | 20 18.5 | 580 | 9 | 10 16.2 | 517 |
| Febr. 2 | 0 33.1 | 556 | 22 | 14 44.3 | 579 | 11 | 4 44.1 | 516 |
| 3 | 19 1.4 | 558 | 24 | 9 10.2 | 578 | 12 | 23 12.2 | 515 |
| 5 | 13 29.6 | 559 | 26 | 3 36.1 | 577 | 14 | 17 40.3 | 514 |
| 7 | 7 57.8 | 560 | 27 | 22 2.0 | 576 | 16 | 12 8.5 | 513 |
| 9 | 2 25.9 | 561 | 29 | 16 27.9 | 575 | 18 | 6 36.7 | 512 |
| 10 | 20 53.9 | 563 | Mai 1 | 10 53.7 | 575 | 20 | 1 5.1 | 511 |
| 12 | 15 21.9 | 564 | 3 | 5 19.7 | 574 | 21 | 19 33.5 | 510 |
| 14 | 9 49.8 | 565 | 4 | 23 45.5 | 573 | 23 | 14 2.0 | 509 |
| 16 | 4 17.6 | 566 | 6 | 18 11.4 | 572 | 25 | 8 30.5 | 509 |
| 17 | 22 45.4 | 567 | 8 | 12 37.3 | 571 | 27 | 2 59.1 | 508 |
| 19 | 17 13.1 | 568 | 10 | 7 3.3 | 570 | 28 | 21 27.7 | 507 |
| 21 | 11 40.8 | 568 | 12 | 1 29.3 | 569 | 30 | 15 56.4 | 506 |
| 23 | 6 8.4 | 569 | 13 | 19 55.2 | 568 | Aug. 1 | 10 25.2 | 505 |
| 25 | 0 35.9 | 570 | 15 | 14 21.3 | 567 | 3 | 4 54.1 | 504 |
| 26 | 19 3.3 | 571 | 17 | 8 47.3 | 566 | 4 | 23 23.0 | 504 |
| 28 | 13 30.7 | 572 | 19 | 3 13.4 | 564 | 6 | 17 51.9 | 503 |
| März 2 | 7 58.0 | 573 | 20 | 21 39.6 | 563 | 8 | 12 20.9 | 503 |
| 4 | 2 25.2 | 574 | 22 | 16 5.9 | 562 | 10 | 6 50.0 | 502 |
| 5 | 20 52.4 | 575 | 24 | 10 32.1 | 560 | 12 | 1 19.1 | 501 |
| 7 | 15 19.5 | 576 | 26 | 4 58.4 | 558 | 13 | 19 48.2 | 501 |
| 9 | 9 46.4 | 576 | 27 | 23 24.8 | 556 | 15 | 14 17.4 | 500 |
| 11 | 4 13.4 | 577 | 29 | 17 51.1 | 554 | 17 | 8 46.7 | 500 |
| 12 | 22 40.3 | 578 | 31 | 12 17.6 | 552 | 19 | 3 16.2 | 499 |
| 14 | 17 7.1 | 579 | Juni 2 | 6 44.1 | 550 | 20 | 21 45.5 | 498 |
| 16 | 11 33.9 | 579 | 4 | 1 10.7 | 549 | 22 | 16 14.9 | 498 |
| 18 | 6 0.7 | 579 | 5 | 19 37.2 | 547 | 24 | 10 44.3 | 498 |
| 20 | 0 27.2 | 580 | 7 | 14 3.9 | 545 | 26 | 5 13.8 | 498 |

## TRABANT I. (Fortsetzung.)

| Geoz. Obere Konj. Mittlere Zeit | h | m | b/a | Geoz. Obere Konj. Mittlere Zeit | h | m | b/a | Geoz. Obere Konj. Mittlere Zeit | h | m | b/a |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aug. 27 | 23 | 43.3 | −0.0497 | Okt. 9 | 11 | 42.3 | −0.0496 | Nov. 20 | 23 | 51.1 | −0.0500 |
| 29 | 18 | 12.9 | 496 | 11 | 6 | 12.4 | 496 | 22 | 18 | 21.4 | 500 |
| 31 | 12 | 42.4 | 496 | 13 | 0 | 42.7 | 496 | 24 | 12 | 52.0 | 500 |
| Sept. 2 | 7 | 12.2 | 496 | 14 | 19 | 13.2 | 497 | 26 | 7 | 22.4 | 500 |
| 4 | 1 | 41.8 | 496 | 16 | 13 | 43.4 | 497 | 28 | 1 | 52.7 | 500 |
| 5 | 20 | 11.6 | 495 | 18 | 8 | 13.7 | 497 | 29 | 20 | 23.1 | 500 |
| 7 | 14 | 41.3 | 495 | 20 | 2 | 44.0 | 497 | Dez. 1 | 14 | 53.4 | 500 |
| 9 | 9 | 11.2 | 495 | 21 | 21 | 14.5 | 498 | 3 | 9 | 23.8 | 501 |
| 11 | 3 | 41.1 | 495 | 23 | 15 | 44.7 | 498 | 5 | 3 | 54.2 | 501 |
| 12 | 22 | 10.9 | 495 | 25 | 10 | 15.2 | 498 | 6 | 22 | 24.5 | 501 |
| 14 | 16 | 40.8 | 495 | 27 | 4 | 45.5 | 498 | 8 | 16 | 54.7 | 502 |
| 16 | 11 | 10.8 | 495 | 28 | 23 | 15.9 | 498 | 10 | 11 | 25.2 | 502 |
| 18 | 5 | 40.7 | 495 | 30 | 17 | 46.4 | 499 | 12 | 5 | 55.3 | 503 |
| 20 | 0 | 10.7 | 495 | Nov. 1 | 12 | 16.7 | 499 | 14 | 0 | 25.6 | 503 |
| 21 | 18 | 40.7 | 495 | 3 | 6 | 47.1 | 499 | 15 | 18 | 55.8 | 504 |
| 23 | 13 | 10.8 | 495 | 5 | 1 | 17.5 | 499 | 17 | 13 | 26.0 | 504 |
| 25 | 7 | 40.9 | 495 | 6 | 19 | 47.9 | 500 | 19 | 7 | 56.1 | 504 |
| 27 | 2 | 11.0 | 495 | 8 | 14 | 18.4 | 500 | 21 | 2 | 26.4 | 504 |
| 28 | 20 | 41.0 | 496 | 10 | 8 | 48.6 | 500 | 22 | 20 | 56.5 | 504 |
| 30 | 15 | 11.3 | 496 | 12 | 3 | 19.2 | 500 | 24 | 15 | 26.8 | 505 |
| Okt. 2 | 9 | 41.4 | 496 | 13 | 21 | 49.5 | 500 | 26 | 9 | 56.9 | 505 |
| 4 | 4 | 11.7 | 496 | 15 | 16 | 20.0 | 500 | 28 | 4 | 27.0 | 505 |
| 5 | 22 | 41.8 | 496 | 17 | 10 | 50.3 | 500 | 29 | 22 | 57.0 | 505 |
| 7 | 17 | 12.1 | 496 | 19 | 5 | 20.8 | 500 | 31 | 17 | 27.1 | 505 |

## TRABANT II.

| Geoz. Obere Konj. Mittlere Zeit | h | m | b/a | Geoz. Obere Konj. Mittlere Zeit | h | m | b/a | Geoz. Obere Konj. Mittlere Zeit | h | m | b/a |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan. 4 | 4 | 26.2 | −0.0533 | März 12 | 16 | 39.1 | −0.0578 | Mai 19 | 2 | 31.4 | −0.0564 |
| 7 | 17 | 46.5 | 536 | 16 | 5 | 51.1 | 579 | 22 | 15 | 39.9 | 561 |
| 11 | 7 | 6.6 | 539 | 19 | 19 | 2.0 | 580 | 26 | 4 | 50.0 | 558 |
| 14 | 20 | 26.2 | 542 | 23 | 8 | 13.1 | 581 | 29 | 17 | 59.2 | 554 |
| 18 | 9 | 45.5 | 544 | 26 | 21 | 23.0 | 581 | Juni 2 | 7 | 10.0 | 551 |
| 21 | 23 | 4.2 | 547 | 30 | 10 | 33.2 | 582 | 5 | 20 | 20.2 | 547 |
| 25 | 12 | 22.8 | 550 | April 2 | 23 | 42.2 | 582 | 9 | 9 | 31.8 | 544 |
| 29 | 1 | 40.6 | 553 | 6 | 12 | 51.7 | 582 | 12 | 22 | 42.8 | 540 |
| Febr. 1 | 14 | 58.3 | 556 | 10 | 2 | 0.1 | 582 | 16 | 11 | 55.5 | 537 |
| 5 | 4 | 15.2 | 559 | 13 | 15 | 9.1 | 581 | 20 | 1 | 7.7 | 533 |
| 8 | 17 | 32.1 | 561 | 17 | 4 | 16.9 | 581 | 23 | 14 | 21.5 | 529 |
| 12 | 6 | 48.1 | 563 | 20 | 17 | 25.6 | 580 | 27 | 3 | 34.7 | 526 |
| 15 | 20 | 3.9 | 566 | 24 | 6 | 33.2 | 578 | 30 | 16 | 49.5 | 523 |
| 19 | 9 | 18.9 | 567 | 27 | 19 | 41.7 | 576 | Juli 4 | 6 | 3.8 | 521 |
| 22 | 22 | 33.9 | 569 | Mai 1 | 8 | 49.0 | 575 | 7 | 19 | 19.7 | 518 |
| 26 | 11 | 47.7 | 571 | 4 | 21 | 57.7 | 573 | 11 | 8 | 35.0 | 516 |
| März 2 | 1 | 1.6 | 573 | 8 | 11 | 5.2 | 571 | 14 | 21 | 51.7 | 514 |
| 5 | 14 | 14.5 | 574 | 12 | 0 | 14.2 | 569 | 18 | 11 | 8.2 | 512 |
| 9 | 3 | 27.4 | 576 | 15 | 13 | 22.1 | 567 | 22 | 0 | 26.0 | 510 |

## TRABANT II. (Fortsetzung.)

| Geoz. Obere Konj. Mittlere Zeit | | | | $\frac{b}{a}$ | Geoz. Obere Konj. Mittlere Zeit | | | | $\frac{b}{a}$ | Geoz. Obere Konj. Mittlere Zeit | | | | $\frac{b}{a}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | h | m | | | | h | m | | | | h | m | |
| Juli | 25 | 13 | 43.3 | −0.0508 | Sept. | 16 | 21 | 56.0 | −0.0495 | Nov. | 9 | 6 | 54.4 | −0.0500 |
| | 29 | 3 | 2.0 | 507 | | 20 | 11 | 18.9 | 495 | | 12 | 20 | 18.7 | 500 |
| Aug. | 1 | 16 | 20.3 | 505 | | 24 | 0 | 42.3 | 495 | | 16 | 9 | 43.0 | 500 |
| | 5 | 5 | 39.8 | 504 | | 27 | 14 | 5.7 | 496 | | 19 | 23 | 7.3 | 500 |
| | 8 | 18 | 59.0 | 502 | Okt. | 1 | 3 | 29.3 | 496 | | 23 | 12 | 31.5 | 500 |
| | 12 | 8 | 19.2 | 501 | | 4 | 16 | 52.7 | 496 | | 27 | 1 | 55.7 | 500 |
| | 15 | 21 | 39.2 | 500 | | 8 | 6 | 16.7 | 496 | | 30 | 15 | 19.9 | 500 |
| | 19 | 11 | 0.3 | 499 | | 11 | 19 | 40.6 | 496 | Dez. | 4 | 4 | 43.9 | 501 |
| | 23 | 0 | 21.0 | 498 | | 15 | 9 | 4.7 | 497 | | 7 | 18 | 7.7 | 502 |
| | 26 | 13 | 42.5 | 497 | | 18 | 22 | 28.7 | 497 | | 11 | 7 | 31.5 | 502 |
| | 30 | 3 | 3.9 | 496 | | 22 | 11 | 52.9 | 498 | | 14 | 20 | 55.2 | 503 |
| Sept. | 2 | 16 | 26.1 | 496 | | 26 | 1 | 17.1 | 498 | | 18 | 10 | 18.8 | 504 |
| | 6 | 5 | 48.0 | 495 | | 29 | 14 | 41.4 | 499 | | 21 | 23 | 42.1 | 504 |
| | 9 | 19 | 10.6 | 495 | Nov. | 2 | 4 | 5.7 | 499 | | 25 | 13 | 5.4 | 505 |
| | 13 | 8 | 33.1 | 495 | | 5 | 17 | 30.1 | 499 | | 29 | 2 | 28.5 | 505 |

## TRABANT III.

| | | h | m | | | | h | m | | | | h | m | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan. | 4 | 23 | 10.2 | −0.0534 | Mai | 6 | 13 | 25.0 | −0.0572 | Sept. | 5 | 5 | 19.3 | −0.0495 |
| | 12 | 3 | 20.6 | 540 | | 13 | 16 | 42.7 | 568 | | 12 | 9 | 36.3 | 495 |
| | 19 | 7 | 27.7 | 545 | | 20 | 20 | 1.6 | 563 | | 19 | 13 | 55.5 | 495 |
| | 26 | 11 | 31.2 | 551 | | 27 | 23 | 23.3 | 556 | | 26 | 18 | 17.0 | 495 |
| Febr. | 2 | 15 | 31.6 | 556 | Juni | 4 | 2 | 47.6 | 549 | Okt. | 3 | 22 | 40.2 | 496 |
| | 9 | 19 | 27.6 | 562 | | 11 | 6 | 15.4 | 542 | | 11 | 3 | 5.3 | 496 |
| | 16 | 23 | 19.3 | 566 | | 18 | 9 | 47.6 | 535 | | 18 | 7 | 31.1 | 497 |
| | 24 | 3 | 6.1 | 570 | | 25 | 13 | 24.4 | 528 | | 25 | 11 | 57.9 | 498 |
| März | 3 | 6 | 48.4 | 573 | Juli | 2 | 17 | 6.5 | 522 | Nov. | 1 | 16 | 25.0 | 499 |
| | 10 | 10 | 26.0 | 577 | | 9 | 20 | 52.2 | 517 | | 8 | 20 | 52.8 | 500 |
| | 17 | 13 | 59.4 | 579 | | 17 | 0 | 42.5 | 513 | | 16 | 1 | 21.0 | 500 |
| | 24 | 17 | 29.2 | 581 | | 24 | 4 | 36.4 | 509 | | 23 | 5 | 49.5 | 500 |
| | 31 | 20 | 54.5 | 582 | | 31 | 8 | 34.4 | 506 | | 30 | 10 | 18.4 | 500 |
| April | 8 | 0 | 16.8 | 582 | Aug. | 7 | 12 | 36.7 | 503 | Dez. | 7 | 14 | 46.0 | 502 |
| | 15 | 3 | 35.8 | 581 | | 14 | 16 | 42.5 | 500 | | 14 | 19 | 13.0 | 503 |
| | 22 | 6 | 52.7 | 579 | | 21 | 20 | 52.3 | 498 | | 21 | 23 | 38.8 | 504 |
| | 29 | 10 | 8.9 | 576 | | 29 | 1 | 4.4 | 497 | | 29 | 4 | 3.5 | 505 |

## TRABANT IV.

| | | h | m | | | | h | m | | | | h | m | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan. | 4 | 11 | 48.4 | −0.0468 | Mai | 17 | 21 | 1.4 | −0.0500 | Sept. | 28 | 17 | 16.4 | −0.0430 |
| | 21 | 6 | 46.2 | 481 | Juni | 3 | 11 | 42.1 | 485 | Okt. | 15 | 13 | 34.4 | 432 |
| Febr. | 7 | 0 | 56.7 | 495 | | 20 | 3 | 8.3 | 469 | Nov. | 1 | 10 | 6.8 | 434 |
| | 23 | 18 | 14.2 | 505 | Juli | 6 | 19 | 30.4 | 456 | | 18 | 6 | 46.4 | 436 |
| März | 12 | 10 | 34.4 | 512 | | 23 | 12 | 47.1 | 445 | Dez. | 5 | 3 | 26.1 | 437 |
| | 29 | 1 | 57.9 | 517 | Aug. | 9 | 6 | 56.0 | 438 | | 21 | 23 | 58.2 | 441 |
| April | 14 | 16 | 34.6 | 517 | | 26 | 1 | 49.3 | 432 | | | | | |
| Mai | 1 | 6 | 47.8 | 511 | Sept. | 11 | 21 | 18.1 | 430 | | | | | |

## TRABANT I.

**Eintritte**

| | | h | m | s |
|---|---|---|---|---|
| Jan. | 1 | 1 | 45 | 35 |
| | 2 | 20 | 13 | 59 |
| | 4 | 14 | 42 | 16 |
| | 6 | 9 | 10 | 39 |
| | 8 | 3 | 38 | 57 |
| | 9 | 22 | 7 | 20 |
| | 11 | 16 | 35 | 36 |
| | 13 | 11 | 3 | 58 |
| | 15 | 5 | 32 | 15 |
| | 17 | 0 | 0 | 37 |
| | 18 | 18 | 28 | 52 |
| | 20 | 12 | 57 | 12 |
| | 22 | 7 | 25 | 29 |
| | 24 | 1 | 53 | 50 |
| | 25 | 20 | 22 | 5 |
| | 27 | 14 | 50 | 24 |
| | 29 | 9 | 18 | 39 |
| | 31 | 3 | 47 | 0 |
| Febr. | 1 | 22 | 15 | 14 |
| | 3 | 16 | 43 | 33 |
| | 5 | 11 | 11 | 48 |
| | 7 | 5 | 40 | 8 |
| | 9 | 0 | 8 | 22 |
| | 10 | 18 | 36 | 40 |
| | 12 | 13 | 4 | 55 |
| | 14 | 7 | 33 | 14 |
| | 16 | 2 | 1 | 28 |
| | 17 | 20 | 29 | 46 |
| | 19 | 14 | 58 | 0 |
| | 21 | 9 | 26 | 20 |
| | 23 | 3 | 54 | 34 |
| | 24 | 22 | 22 | 52 |
| | 26 | 16 | 51 | 6 |
| | 28 | 11 | 19 | 26 |
| März | 2 | 5 | 47 | 41 |
| | 4 | 0 | 15 | 58 |

**Eintritte**

| | | h | m | s |
|---|---|---|---|---|
| März | 5 | 18 | 44 | 13 |
| | 7 | 13 | 12 | 33 |
| | 9 | 7 | 40 | 48 |
| | 11 | 2 | 9 | 6 |
| | 12 | 20 | 37 | 21 |
| | 14 | 15 | 5 | 41 |
| | 16 | 9 | 33 | 57 |
| | 18 | 4 | 2 | 15 |
| | 19 | 22 | 30 | 32 |
| | 21 | 16 | 58 | 53 |
| | 23 | 11 | 27 | 10 |
| | 25 | 5 | 55 | 29 |
| | 27 | 0 | 23 | 46 |
| | 28 | 18 | 52 | 8 |
| | 30 | 13 | 20 | 26 |
| April | 1 | 7 | 48 | 46 |
| | 3 | 2 | 17 | 5 |
| | 4 | 20 | 45 | 27 |
| | 6 | 15 | 13 | 47 |
| | 8 | 9 | 42 | 8 |
| | 10 | 4 | 10 | 28 |
| | 11 | 22 | 38 | 52 |
| | 13 | 17 | 7 | 13 |
| | 15 | 11 | 35 | 36 |
| | 17 | 6 | 3 | 57 |
| | 19 | 0 | 32 | 22 |
| | 20 | 19 | 0 | 46 |
| | 22 | 13 | 29 | 9 |
| | 24 | 7 | 57 | 33 |
| | 26 | 2 | 25 | 59 |
| | 27 | 20 | 54 | 24 |
| | 29 | 15 | 22 | 49 |

**Austritte**

| | | h | m | s |
|---|---|---|---|---|
| Mai | 1 | 11 | 58 | 21 |

**Austritte**

| | | h | m | s |
|---|---|---|---|---|
| Mai | 3 | 6 | 26 | 49 |
| | 5 | 0 | 55 | 15 |
| | 6 | 19 | 23 | 42 |
| | 8 | 13 | 52 | 8 |
| | 10 | 8 | 20 | 37 |
| | 12 | 2 | 49 | 6 |
| | 13 | 21 | 17 | 34 |
| | 15 | 15 | 46 | 3 |
| | 17 | 10 | 14 | 34 |
| | 19 | 4 | 43 | 4 |
| | 20 | 23 | 11 | 34 |
| | 22 | 17 | 40 | 5 |
| | 24 | 12 | 8 | 37 |
| | 26 | 6 | 37 | 9 |
| | 28 | 1 | 5 | 41 |
| | 29 | 19 | 34 | 13 |
| | 31 | 14 | 2 | 47 |
| Juni | 2 | 8 | 31 | 21 |
| | 4 | 2 | 59 | 54 |
| | 5 | 21 | 28 | 28 |
| | 7 | 15 | 57 | 3 |
| | 9 | 10 | 25 | 39 |
| | 11 | 4 | 54 | 14 |
| | 12 | 23 | 22 | 49 |
| | 14 | 17 | 51 | 25 |
| | 16 | 12 | 20 | 3 |
| | 18 | 6 | 48 | 39 |
| | 20 | 1 | 17 | 16 |
| | 21 | 19 | 45 | 53 |
| | 23 | 14 | 14 | 33 |
| | 25 | 8 | 43 | 10 |
| | 27 | 3 | 11 | 48 |
| | 28 | 21 | 40 | 26 |
| | 30 | 16 | 9 | 7 |
| Juli | 2 | 10 | 37 | 46 |
| | 4 | 5 | 6 | 25 |

**Austritte**

| | | h | m | s |
|---|---|---|---|---|
| Juli | 5 | 23 | 35 | 4 |
| | 7 | 18 | 3 | 46 |
| | 9 | 12 | 32 | 24 |
| | 11 | 7 | 1 | 5 |
| | 13 | 1 | 29 | 45 |
| | 14 | 19 | 58 | 28 |
| | 16 | 14 | 27 | 8 |
| | 18 | 8 | 55 | 49 |
| | 20 | 3 | 24 | 29 |
| | 21 | 21 | 53 | 13 |
| | 23 | 16 | 21 | 53 |
| | 25 | 10 | 50 | 35 |
| | 27 | 5 | 19 | 16 |
| | 28 | 23 | 48 | 1 |
| | 30 | 18 | 16 | 41 |
| Aug. | 1 | 12 | 45 | 24 |
| | 3 | 7 | 14 | 5 |
| | 5 | 1 | 42 | 50 |
| | 6 | 20 | 11 | 31 |
| | 8 | 14 | 40 | 14 |
| | 10 | 9 | 8 | 55 |
| | 12 | 3 | 37 | 41 |
| | 13 | 22 | 6 | 22 |
| | 15 | 16 | 35 | 6 |
| | 17 | 11 | 3 | 47 |
| | 19 | 5 | 32 | 33 |
| | 21 | 0 | 1 | 14 |
| | 22 | 18 | 29 | 58 |
| | 24 | 12 | 58 | 39 |
| | 26 | 7 | 27 | 25 |
| | 28 | 1 | 56 | 6 |
| | 29 | 20 | 24 | 50 |
| | 31 | 14 | 53 | 31 |
| Sept. | 2 | 9 | 22 | 17 |
| | 4 | 3 | 50 | 58 |
| | 5 | 22 | 19 | 42 |

## TRABANT I. (Fortsetzung.)

| Austritte | h | m | s | Austritte | h | m | s | Austritte | h | m | s | Eintritte | h | m | s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sept. 7 | 16 | 48 | 23 | Sept. 23 | 15 | 6 | 48 | Okt. 9 | 13 | 25 | 0 | Dez. 17 | 11 | 52 | 32 |
| 9 | 11 | 17 | 9 | 25 | 9 | 35 | 28 | 11 | 7 | 53 | 42 | 19 | 6 | 21 | 0 |
| 11 | 5 | 45 | 49 | 27 | 4 | 4 | 12 | 13 | 2 | 22 | 20 | 21 | 0 | 49 | 34 |
| 13 | 0 | 14 | 34 | 28 | 22 | 32 | 51 | 14 | 20 | 51 | 4 | 22 | 19 | 17 | 59 |
| 14 | 18 | 43 | 13 | 30 | 17 | 1 | 36 | 16 | 15 | 19 | 42 | 24 | 13 | 46 | 33 |
| 16 | 13 | 11 | 59 | Okt. 2 | 11 | 30 | 15 | 18 | 9 | 48 | 24 | 26 | 8 | 15 | 0 |
| 18 | 7 | 40 | 40 | 4 | 5 | 58 | 58 | 20 | 4 | 17 | 0 | 28 | 2 | 43 | 32 |
| 20 | 2 | 9 | 24 | 6 | 0 | 27 | 36 | | | | | 29 | 21 | 11 | 57 |
| 21 | 20 | 38 | 3 | 7 | 18 | 56 | 21 | | | | | 31 | 15 | 40 | 29 |

## TRABANT II.

| Eintritte | h | m | s | Eintritte | h | m | s | Austritte | h | m | s | Austritte | h | m | s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan. 4 | 0 | 58 | 8 | März 26 | 18 | 34 | 1 | Juni 5 | 23 | 12 | 33 | Aug. 26 | 17 | 18 | 41 |
| 7 | 14 | 14 | 51 | 30 | 7 | 52 | 17 | 9 | 12 | 31 | 44 | 30 | 6 | 36 | 33 |
| 11 | 3 | 31 | 46 | April 2 | 21 | 9 | 41 | 13 | 1 | 49 | 49 | Sept. 2 | 19 | 54 | 52 |
| 14 | 16 | 48 | 30 | 6 | 10 | 28 | 5 | 16 | 15 | 9 | 0 | 6 | 9 | 12 | 41 |
| 18 | 6 | 5 | 31 | 9 | 23 | 45 | 34 | 20 | 4 | 27 | 8 | 9 | 22 | 30 | 52 |
| 21 | 19 | 22 | 17 | 13 | 13 | 4 | 6 | 23 | 17 | 46 | 18 | 13 | 11 | 48 | 36 |
| 25 | 8 | 39 | 24 | 17 | 2 | 21 | 41 | 27 | 7 | 4 | 26 | 17 | 1 | 6 | 39 |
| 28 | 21 | 56 | 12 | 20 | 15 | 40 | 21 | 30 | 20 | 23 | 35 | 20 | 14 | 24 | 20 |
| Febr. 1 | 11 | 13 | 25 | 24 | 4 | 58 | 1 | Juli 4 | 9 | 41 | 44 | 24 | 3 | 42 | 14 |
| 5 | 0 | 30 | 16 | 27 | 18 | 16 | 47 | 7 | 23 | 0 | 50 | 27 | 16 | 59 | 50 |
| 8 | 13 | 47 | 36 | | | | | 11 | 12 | 18 | 59 | Okt. 1 | 6 | 17 | 36 |
| 12 | 3 | 4 | 31 | Austritte | | | | 15 | 1 | 38 | 2 | 4 | 19 | 35 | 7 |
| 15 | 16 | 21 | 58 | | | | | 18 | 14 | 56 | 10 | 8 | 8 | 52 | 45 |
| 19 | 5 | 38 | 55 | Mai 1 | 10 | 7 | 40 | 22 | 4 | 15 | 9 | 11 | 22 | 10 | 12 |
| 22 | 18 | 56 | 30 | 4 | 23 | 26 | 32 | 25 | 17 | 33 | 15 | 15 | 11 | 27 | 42 |
| 26 | 8 | 13 | 31 | 8 | 12 | 44 | 21 | 29 | 6 | 52 | 9 | 19 | 0 | 45 | 3 |
| März 1 | 21 | 31 | 14 | 12 | 2 | 3 | 20 | Aug. 1 | 20 | 10 | 13 | | | | |
| 5 | 10 | 48 | 19 | 15 | 15 | 21 | 13 | 5 | 9 | 29 | 1 | Eintritte | | | |
| 9 | 0 | 6 | 10 | 19 | 4 | 40 | 16 | 8 | 22 | 47 | 4 | | | | |
| 12 | 13 | 23 | 20 | 22 | 17 | 58 | 13 | 12 | 12 | 5 | 45 | Dez. 18 | 8 | 2 | 19 |
| 16 | 2 | 41 | 20 | 26 | 7 | 17 | 20 | 16 | 1 | 23 | 44 | 21 | 21 | 18 | 57 |
| 19 | 15 | 58 | 34 | 29 | 20 | 35 | 20 | 19 | 14 | 42 | 18 | 25 | 10 | 35 | 34 |
| 23 | 5 | 16 | 42 | Juni 2 | 9 | 54 | 29 | 23 | 4 | 0 | 14 | 28 | 23 | 52 | 9 |

## TRABANT III.

| Mitte der Verfinsterung | | Halbe Dauer | Mitte der Verfinsterung | | Halbe Dauer |
|---|---|---|---|---|---|
| | h m s | h m s | | h m s | h m s |
| Jan. | 4 | 18 42 58 | 0 46 46 | Juni 18 | 13 50 32 | 0 39 51 |
| 11 | 22 40 0 | 0 46 17 | 25 | 17 49 20 | 0 39 47 |
| 19 | 2 37 8 | 0 45 49 | Juli 2 | 21 48 51 | 0 39 44 |
| 26 | 6 34 20 | 0 45 22 | 10 | 1 47 54 | 0 39 42 |
| Febr. 2 | 10 32 8 | 0 44 56 | 17 | 5 47 8 | 0 39 41 |
| 9 | 14 29 26 | 0 44 30 | 24 | 9 45 57 | 0 39 42 |
| 16 | 18 26 57 | 0 44 6 | 31 | 13 44 43 | 0 39 45 |
| 23 | 22 23 57 | 0 43 43 | Aug. 7 | 17 43 47 | 0 39 48 |
| März 3 | 2 20 52 | 0 43 20 | 14 | 21 42 55 | 0 39 53 |
| 10 | 6 18 0 | 0 42 59 | 22 | 1 42 40 | 0 39 59 |
| 17 | 10 15 17 | 0 42 38 | 29 | 5 41 53 | 0 40 7 |
| 24 | 14 13 17 | 0 42 18 | Sept. 5 | 9 41 12 | 0 40 16 |
| 31 | 18 10 51 | 0 42 0 | 12 | 13 40 2 | 0 40 26 |
| April 7 | 22 8 43 | 0 41 42 | 19 | 17 38 47 | 0 40 38 |
| 15 | 2 6 10 | 0 41 26 | 26 | 21 37 47 | 0 40 51 |
| 22 | 6 3 39 | 0 41 10 | Okt. 4 | 1 36 48 | 0 41 6 |
| 29 | 10 1 27 | 0 40 56 | 11 | 5 36 24 | 0 41 21 |
| Mai 6 | 13 59 28 | 0 40 43 | 18 | 9 35 23 | 0 41 38 |
| 13 | 17 58 14 | 0 40 32 | | | |
| 20 | 21 56 37 | 0 40 21 | | | |
| 28 | 1 55 17 | 0 40 12 | | | |
| Juni 4 | 5 53 34 | 0 40 4 | Dez. 21 | 21 23 0 | 0 45 2 |
| 11 | 9 51 53 | 0 39 57 | 29 | 1 20 59 | 0 45 30 |

## TRABANT IV.

Es finden in diesem Jahre keine Verfinsterungen statt.

| $0^h$ | $\alpha$ | $\beta$ | $p_a$ | $a$ | $b$ | $U'$ | $B'$ | $P'$ |
|---|---|---|---|---|---|---|---|---|
| Jan. 3 | 18.77 | 16.97″ | +0.05 | 42.28 | −11.52 | 224° 33.6 | −17° 57.0 | +19° 37.3 |
| 7 | 18.63 | 16.85 | 0.05 | 41.98 | 11.46 | 224 42.0 | 18 0.0 | 19 34.4 |
| 11 | 18.50 | 16.73 | 0.05 | 41.67 | 11.40 | 224 50.5 | 18 2.9 | 19 31.4 |
| 15 | 18.37 | 16.61 | 0.05 | 41.37 | 11.35 | 224 59.0 | 18 5.9 | 19 28.4 |
| 19 | 18.23 | 16.49 | 0.05 | 41.07 | 11.31 | 225 7.5 | 18 8.8 | 19 25.4 |
| 23 | 18.10 | 16.37 | +0.05 | 40.78 | −11.28 | 225 15.9 | −18 11.8 | +19 22.4 |
| 27 | 17.97 | 16.25 | 0.05 | 40.49 | 11.25 | 225 24.4 | 18 14.7 | 19 19.4 |
| 31 | 17.85 | 16.14 | 0.05 | 40.20 | 11.23 | 225 32.9 | 18 17.6 | 19 16.4 |
| Febr. 4 | 17.72 | 16.03 | 0.05 | 39.92 | 11.22 | 225 41.4 | 18 20.5 | 19 13.3 |
| 8 | 17.60 | 15.92 | 0.05 | 39.65 | 11.22 | 225 49.9 | 18 23.4 | 19 10.3 |
| 12 | 17.49 | 15.82 | +0.04 | 39.39 | −11.22 | 225 58.4 | −18 26.3 | +19 7.2 |
| 16 | 17.38 | 15.72 | 0.04 | 39.14 | 11.23 | 226 6.9 | 18 29.2 | 19 4.2 |
| 20 | 17.27 | 15.63 | 0.04 | 38.90 | 11.24 | 226 15.4 | 18 32.0 | 19 1.1 |
| 24 | 17.17 | 15.54 | 0.04 | 38.68 | 11.26 | 226 23.9 | 18 34.9 | 18 58.0 |
| 28 | 17.07 | 15.46 | 0.03 | 38.46 | 11.29 | 226 32.5 | 18 37.8 | 18 54.9 |
| März 4 | 16.98 | 15.38 | +0.03 | 38.25 | −11.32 | 226 41.0 | −18 40.7 | +18 51.8 |
| 8 | 16.90 | 15.30 | 0.03 | 38.06 | 11.36 | 226 49.6 | 18 43.5 | 18 48.7 |
| Sept. 16 | 19.41 | 17.68 | −0.04 | 43.72 | −16.46 | 233 48.1 | −20 53.6 | +16 9.6 |
| 20 | 19.53 | 17.79 | 0.04 | 44.00 | 16.54 | 233 57.0 | 20 56.2 | 16 6.1 |
| 24 | 19.65 | 17.90 | 0.03 | 44.26 | 16.61 | 234 5.9 | 20 58.8 | 16 2.6 |
| 28 | 19.77 | 18.00 | 0.03 | 44.52 | 16.67 | 234 14.8 | 21 1.4 | 15 59.1 |
| Okt. 2 | 19.88 | 18.10 | 0.03 | 44.76 | 16.72 | 234 23.7 | 21 3.9 | 15 55.6 |
| 6 | 19.97 | 18.19 | −0.02 | 44.99 | −16.76 | 234 32.6 | −21 6.4 | +15 52.0 |
| 10 | 20.06 | 18.28 | 0.02 | 45.20 | 16.79 | 234 41.5 | 21 8.9 | 15 48.4 |
| 14 | 20.15 | 18.36 | 0.01 | 45.38 | 16.81 | 234 50.4 | 21 11.4 | 15 44.8 |
| 18 | 20.22 | 18.42 | 0.01 | 45.54 | 16.81 | 234 59.3 | 21 13.8 | 15 41.2 |
| 22 | 20.28 | 18.48 | −0.01 | 45.68 | 16.81 | 235 8.2 | 21 16.3 | 15 37.6 |
| 26 | 20.33 | 18.52 | 0.00 | 45.80 | −16.79 | 235 17.2 | −21 18.8 | +15 34.0 |
| 30 | 20.37 | 18.55 | 0.00 | 45.89 | 16.76 | 235 26.1 | 21 21.3 | 15 30.4 |
| Nov. 3 | 20.40 | 18.57 | 0.00 | 45.95 | 16.72 | 235 35.1 | 21 23.7 | 15 26.8 |
| 7 | 20.42 | 18.58 | 0.00 | 45.98 | 16.67 | 235 44.0 | 21 26.2 | 15 23.2 |
| 11 | 20.42 | 18.58 | 0.00 | 45.98 | 16.61 | 235 53.0 | 21 28.6 | 15 19.6 |
| 15 | 20.41 | 18.57 | 0.00 | 45.96 | −16.54 | 236 2.0 | −21 31.1 | +15 16.0 |
| 19 | 20.38 | 18.54 | 0.00 | 45.91 | 16.46 | 236 11.0 | 21 33.5 | 15 12.3 |
| 23 | 20.35 | 18.50 | 0.00 | 45.83 | 16.37 | 236 20.0 | 21 35.9 | 15 8.7 |
| 27 | 20.30 | 18.46 | 0.00 | 45.73 | 16.28 | 236 29.0 | 21 38.3 | 15 5.0 |
| Dez. 1 | 20.24 | 18.41 | +0.01 | 45.60 | 16.18 | 236 38.0 | 21 40.7 | 15 1.3 |
| 5 | 20.17 | 18.35 | +0.01 | 45.44 | −16.08 | 236 47.1 | −21 43.1 | +14 57.6 |
| 9 | 20.09 | 18.28 | 0.01 | 45.26 | 15.97 | 236 56.1 | 21 45.5 | 14 53.9 |
| 13 | 20.00 | 18.20 | 0.02 | 45.06 | 15.86 | 237 5.1 | 21 47.9 | 14 50.2 |
| 17 | 19.91 | 18.11 | 0.02 | 44.84 | 15.75 | 237 14.1 | 21 50.3 | 14 46.5 |
| 21 | 19.80 | 18.01 | 0.03 | 44.60 | 15.64 | 237 23.2 | 21 52.7 | 14 42.8 |
| 25 | 19.69 | 17.91 | +0.03 | 44.34 | −15.53 | 237 32.2 | −21 55.1 | +14 39.1 |
| 29 | 19.57 | 17.80 | 0.03 | 44.07 | 15.42 | 237 41.3 | 21 57.4 | 14 35.4 |
| 33 | 19.44 | 17.68 | 0.04 | 43.80 | 15.31 | 237 50.3 | 21 59.8 | 14 31.7 |

| $0^h$ | $U$ | $B$ | $P$ |
|---|---|---|---|
| Jan. 1 | 261° 28.2′ | −15° 48.1′ | +1° 1.9′ |
| 3 | 261 28.0 | 15 48.6 | 1 1.9 |
| 5 | 261 28.3 | 15 49.3 | 1 1.8 |
| 7 | 261 29.0 | 15 50.2 | 1 1.7 |
| 9 | 261 30.1 | 15 51.2 | 1 1.6 |
| 11 | 261 31.7 | −15 52.5 | +1 1.4 |
| 13 | 261 33.7 | 15 53.9 | 1 1.2 |
| 15 | 261 36.1 | 15 55.5 | 1 0.9 |
| 17 | 261 38.9 | 15 57.2 | 1 0.6 |
| 19 | 261 42.2 | 15 59.1 | 1 0.2 |
| 21 | 261 45.9 | −16 1.1 | +0 59.8 |
| 23 | 261 50.0 | 16 3.3 | 0 59.3 |
| 25 | 261 54.5 | 16 5.6 | 0 58.8 |
| 27 | 261 59.4 | 16 8.1 | 0 58.2 |
| 29 | 262 4.7 | 16 10.7 | 0 57.5 |
| 31 | 262 10.5 | −16 13.5 | +0 56.8 |
| Febr. 2 | 262 16.6 | 16 16.4 | 0 56.1 |
| 4 | 262 23.1 | 16 19.4 | 0 55.3 |
| 6 | 262 30.0 | 16 22.5 | 0 54.5 |
| 8 | 262 37.2 | 16 25.8 | 0 53.6 |
| 10 | 262 44.8 | −16 29.2 | +0 52.7 |
| 12 | 262 52.8 | 16 32.6 | 0 51.8 |
| 14 | 263 1.1 | 16 36.2 | 0 50.8 |
| 16 | 263 9.8 | 16 39.9 | 0 49.8 |
| 18 | 263 18.8 | 16 43.7 | 0 48.7 |
| 20 | 263 28.1 | −16 47.7 | +0 47.6 |
| 22 | 263 37.7 | 16 51.8 | 0 46.4 |
| 24 | 263 47.7 | 16 55.9 | 0 45.2 |
| 26 | 263 58.0 | 17 0.1 | 0 44.0 |
| 28 | 264 8.5 | 17 4.4 | 0 42.7 |
| März 2 | 264 19.3 | −17 8.8 | +0 41.4 |
| 4 | 264 30.5 | 17 13.2 | 0 40.1 |
| 6 | 264 41.9 | 17 17.7 | 0 38.7 |
| 8 | 264 53.6 | 17 22.2 | 0 37.3 |
| Sept. 16 | 281 55.2 | −22 7.4 | −1 28.3 |
| 18 | 281 52.0 | 22 6.2 | 1 27.9 |
| 20 | 281 48.4 | 22 5.0 | 1 27.4 |
| 22 | 281 44.4 | 22 3.7 | 1 26.9 |
| 24 | 281 39.9 | 22 2.3 | 1 26.3 |
| 26 | 281 35.0 | −22 0.8 | −1 25.7 |
| 28 | 281 29.8 | 21 59.3 | 1 25.0 |
| 30 | 281 24.2 | 21 57.7 | 1 24.3 |
| Okt. 2 | 281 18.2 | 21 55.9 | 1 23.6 |
| 4 | 281 11.8 | 21 54.1 | 1 22.8 |

| $0^h$ | $U$ | $B$ | $P$ |
|---|---|---|---|
| Okt. 4 | 281° 11.8′ | −21° 54.1′ | −1° 22.8′ |
| 6 | 281 5.1 | 21 52.2 | 1 22.0 |
| 8 | 280 58.0 | 21 50.2 | 1 21.1 |
| 10 | 280 50.6 | 21 48.2 | 1 20.2 |
| 12 | 280 42.9 | 21 46.1 | 1 19.3 |
| 14 | 280 34.8 | −21 44.0 | −1 18.3 |
| 16 | 280 26.5 | 21 41.8 | 1 17.3 |
| 18 | 280 18.0 | 21 39.6 | 1 16.2 |
| 20 | 280 9.2 | 21 37.3 | 1 15.1 |
| 22 | 280 0.2 | 21 35.0 | 1 13.9 |
| 24 | 279 51.0 | −21 32.6 | −1 12.8 |
| 26 | 279 41.5 | 21 30.2 | 1 11.6 |
| 28 | 279 31.9 | 21 27.8 | 1 10.4 |
| 30 | 279 22.2 | 21 25.3 | 1 9.2 |
| Nov. 1 | 279 12.3 | 21 22.9 | 1 8.0 |
| 3 | 279 2.4 | −21 20.4 | −1 6.8 |
| 5 | 278 52.4 | 21 17.9 | 1 5.6 |
| 7 | 278 42.3 | 21 15.4 | 1 4.3 |
| 9 | 278 32.2 | 21 12.9 | 1 3.0 |
| 11 | 278 22.1 | 21 10.4 | 1 1.8 |
| 13 | 278 12.0 | −21 7.9 | −1 0.5 |
| 15 | 278 1.9 | 21 5.5 | 0 59.3 |
| 17 | 277 51.9 | 21 3.1 | 0 58.1 |
| 19 | 277 41.9 | 21 0.7 | 0 56.9 |
| 21 | 277 32.0 | 20 58.4 | 0 55.7 |
| 23 | 277 22.3 | −20 56.1 | −0 54.5 |
| 25 | 277 12.8 | 20 53.8 | 0 53.3 |
| 27 | 277 3.4 | 20 51.6 | 0 52.1 |
| 29 | 276 54.2 | 20 49.5 | 0 50.9 |
| Dez. 1 | 276 45.2 | 20 47.4 | 0 49.8 |
| 3 | 276 36.4 | −20 45.4 | −0 48.7 |
| 5 | 276 27.9 | 20 43.5 | 0 47.7 |
| 7 | 276 19.7 | 20 41.7 | 0 46.7 |
| 9 | 276 11.7 | 20 39.9 | 0 45.7 |
| 11 | 276 4.1 | 20 38.2 | 0 44.8 |
| 13 | 275 56.8 | −20 36.7 | −0 43.9 |
| 15 | 275 49.8 | 20 35.3 | 0 43.0 |
| 17 | 275 43.2 | 20 33.9 | 0 42.2 |
| 19 | 275 36.9 | 20 32.6 | 0 41.4 |
| 21 | 275 30.9 | 20 31.5 | 0 40.7 |
| 23 | 275 25.3 | −20 30.5 | −0 40.0 |
| 25 | 275 20.2 | 20 29.6 | 0 39.4 |
| 27 | 275 15.5 | 20 28.9 | 0 38.8 |
| 29 | 275 11.2 | 20 28.3 | 0 38.3 |
| 31 | 275 7.3 | 20 27.8 | 0 37.8 |

## MIMAS.

| $0^h$ | $L$ | $M$ | $\log \frac{a(\rho)}{\rho}$ | $\frac{a(\rho)}{\rho} \sin B$ |
|---|---|---|---|---|
| Jan. 1 | 166° 29.2′ | 158.91° | 1.46109 | − 7.87″ |
| 3 | 210 29.3 | 200.92 | 1.45955 | 7.85 |
| 5 | 254 29.5 | 242.92 | 1.45799 | 7.83 |
| 7 | 298 29.6 | 284.92 | 1.45643 | 7.81 |
| 9 | 342 29.8 | 326.92 | 1.45486 | 7.79 |
| 11 | 26 29.9 | 8.92 | 1.45328 | − 7.77 |
| 13 | 70 30.1 | 50.93 | 1.45170 | 7.75 |
| 15 | 114 30.2 | 92.93 | 1.45012 | 7.74 |
| 17 | 158 30.4 | 134.93 | 1.44854 | 7.72 |
| 19 | 202 30.5 | 176.93 | 1.44697 | 7.71 |
| 21 | 246 30.7 | 218.93 | 1.44539 | − 7.70 |
| 23 | 290 30.8 | 260.93 | 1.44382 | 7.69 |
| 25 | 334 31.0 | 302.94 | 1.44226 | 7.68 |
| 27 | 18 31.2 | 344.94 | 1.44071 | 7.67 |
| 29 | 62 31.3 | 26.94 | 1.43917 | 7.66 |
| 31 | 106 31.5 | 68.95 | 1.43764 | − 7.66 |
| Febr. 2 | 150 31.6 | 110.95 | 1.43613 | 7.65 |
| 4 | 194 31.8 | 152.95 | 1.43463 | 7.65 |
| 6 | 238 32.0 | 194.95 | 1.43315 | 7.64 |
| 8 | 282 32.1 | 236.95 | 1.43169 | 7.64 |
| 10 | 326 32.3 | 278.96 | 1.43025 | − 7.64 |
| 12 | 10 32.4 | 320.96 | 1.42883 | 7.64 |
| 14 | 54 32.6 | 2.96 | 1.42743 | 7.64 |
| 16 | 98 32.7 | 44.97 | 1.42606 | 7.65 |
| 18 | 142 32.9 | 86.97 | 1.42471 | 7.65 |
| 20 | 186 33.0 | 128.97 | 1.42339 | − 7.66 |
| 22 | 230 33.1 | 170.97 | 1.42210 | 7.66 |
| 24 | 274 33.3 | 212.97 | 1.42083 | 7.67 |
| 26 | 318 33.4 | 254.98 | 1.41959 | 7.68 |
| 28 | 2 33.6 | 296.98 | 1.41838 | 7.69 |
| März 2 | 46 33.7 | 338.98 | 1.41721 | − 7.70 |
| 4 | 90 33.8 | 20.99 | 1.41606 | 7.71 |
| 6 | 134 34.0 | 62.99 | 1.41495 | 7.72 |
| 8 | 178 34.1 | 104.99 | 1.41387 | 7.74 |
| Sept. 16 | 82 44.9 | 177.17 | 1.47409 | −11.22 |
| 18 | 126 45.0 | 219.17 | 1.47549 | 11.25 |
| 20 | 170 45.1 | 261.17 | 1.47686 | 11.27 |
| 22 | 214 45.2 | 303.17 | 1.47820 | 11.30 |
| 24 | 258 45.3 | 345.17 | 1.47951 | 11.32 |
| 26 | 302 45.3 | 27.18 | 1.48078 | −11.34 |
| 28 | 346 45.4 | 69.18 | 1.48201 | 11.36 |
| 30 | 30 45.5 | 111.18 | 1.48321 | 11.38 |
| Okt. 2 | 74 45.6 | 153.18 | 1.48436 | 11.39 |
| 4 | 118 45.7 | 195.18 | 1.48547 | −11.41 |

| $0^h$ | $L$ | $M$ | $\log \frac{a(\rho)}{\rho}$ | $\frac{a(\rho)}{\rho} \sin B$ |
|---|---|---|---|---|
| Okt. 4 | 118° 45.7′ | 195.18° | 1.48547 | −11.41″ |
| 6 | 162 45.8 | 237.18 | 1.48653 | 11.42 |
| 8 | 206 45.9 | 279.18 | 1.48755 | 11.43 |
| 10 | 250 46.0 | 321.18 | 1.48852 | 11.44 |
| 12 | 294 46.0 | 3.19 | 1.48943 | 11.45 |
| 14 | 338 46.1 | 45.19 | 1.49029 | −11.45 |
| 16 | 22 46.2 | 87.19 | 1.49110 | 11.46 |
| 18 | 66 46.3 | 129.19 | 1.49186 | 11.46 |
| 20 | 110 46.4 | 171.19 | 1.49255 | 11.46 |
| 22 | 154 46.5 | 213.19 | 1.49319 | 11.45 |
| 24 | 198 46.5 | 255.19 | 1.49376 | −11.45 |
| 26 | 242 46.6 | 297.19 | 1.49428 | 11.44 |
| 28 | 286 46.7 | 339.20 | 1.49473 | 11.43 |
| 30 | 330 46.7 | 21.20 | 1.49511 | 11.42 |
| Nov. 1 | 14 46.8 | 63.20 | 1.49543 | 11.41 |
| 3 | 58 46.9 | 105.20 | 1.49569 | −11.39 |
| 5 | 102 47.0 | 147.20 | 1.49588 | 11.38 |
| 7 | 146 47.0 | 189.20 | 1.49600 | 11.36 |
| 9 | 190 47.1 | 231.20 | 1.49606 | 11.34 |
| 11 | 234 47.2 | 273.20 | 1.49605 | 11.32 |
| 13 | 278 47.2 | 315.21 | 1.49598 | −11.30 |
| 15 | 322 47.3 | 357.21 | 1.49584 | 11.27 |
| 17 | 6 47.3 | 39.21 | 1.49563 | 11.25 |
| 19 | 50 47.4 | 81.21 | 1.49535 | 11.22 |
| 21 | 94 47.5 | 123.21 | 1.49501 | 11.19 |
| 23 | 138 47.6 | 165.21 | 1.49460 | −11.16 |
| 25 | 182 47.6 | 207.21 | 1.49413 | 11.13 |
| 27 | 226 47.7 | 249.21 | 1.49360 | 11.10 |
| 29 | 270 47.8 | 291.22 | 1.49300 | 11.07 |
| Dez. 1 | 314 47.8 | 333.22 | 1.49234 | 11.03 |
| 3 | 358 47.9 | 15.22 | 1.49162 | −11.00 |
| 5 | 42 48.0 | 57.22 | 1.49085 | 10.96 |
| 7 | 86 48.1 | 99.22 | 1.49002 | 10.93 |
| 9 | 130 48.1 | 141.22 | 1.48913 | 10.89 |
| 11 | 174 48.2 | 183.22 | 1.48819 | 10.85 |
| 13 | 218 48.2 | 225.22 | 1.48719 | −10.81 |
| 15 | 262 48.3 | 267.23 | 1.48615 | 10.78 |
| 17 | 306 48.3 | 309.23 | 1.48506 | 10.74 |
| 19 | 350 48.4 | 351.23 | 1.48392 | 10.70 |
| 21 | 34 48.4 | 33.23 | 1.48274 | 10.66 |
| 23 | 78 48.5 | 75.23 | 1.48151 | −10.62 |
| 25 | 122 48.5 | 117.23 | 1.48025 | 10.58 |
| 27 | 166 48.6 | 159.23 | 1.47894 | 10.54 |
| 29 | 210 48.7 | 201.23 | 1.47761 | 10.50 |
| 31 | 254 48.7 | 243.24 | 1.47624 | −10.46 |

## MIMAS.

| M | v — M | log r/a | M | M | v — M | log r/a | M |
|---|---|---|---|---|---|---|---|
| 0° | +0° 0′.0 — | 9.99167 | 360° | 90° | +2° 10′.6 — | 0.00016 | 270° |
| 2 | 0 4.7 | 9.99167 | 358 | 92 | 2 10.4 | 0.00044 | 268 |
| 4 | 0 9.3 | 9.99169 | 356 | 94 | 2 10.1 | 0.00073 | 266 |
| 6 | 0 14.0 | 9.99172 | 354 | 96 | 2 9.6 | 0.00101 | 264 |
| 8 | 0 18.6 | 9.99175 | 352 | 98 | 2 8.9 | 0.00130 | 262 |
| 10 | +0 23.2 — | 9.99180 | 350 | 100 | +2 8.1 — | 0.00158 | 260 |
| 12 | 0 27.8 | 9.99186 | 348 | 102 | 2 7.1 | 0.00186 | 258 |
| 14 | 0 32.3 | 9.99193 | 346 | 104 | 2 6.0 | 0.00214 | 256 |
| 16 | 0 36.8 | 9.99201 | 344 | 106 | 2 4.7 | 0.00241 | 254 |
| 18 | 0 41.3 | 9.99210 | 342 | 108 | 2 3.3 | 0.00268 | 252 |
| 20 | +0 45.7 — | 9.99220 | 340 | 110 | +2 1.7 — | 0.00295 | 250 |
| 22 | 0 50.0 | 9.99230 | 338 | 112 | 2 0.0 | 0.00321 | 248 |
| 24 | 0 54.3 | 9.99242 | 336 | 114 | 1 58.2 | 0.00347 | 246 |
| 26 | 0 58.5 | 9.99255 | 334 | 116 | 1 56.2 | 0.00373 | 244 |
| 28 | 1 2.6 | 9.99269 | 332 | 118 | 1 54.0 | 0.00398 | 242 |
| 30 | +1 6.7 — | 9.99284 | 330 | 120 | +1 51.8 — | 0.00422 | 240 |
| 32 | 1 10.6 | 9.99299 | 328 | 122 | 1 49.4 | 0.00446 | 238 |
| 34 | 1 14.5 | 9.99316 | 326 | 124 | 1 46.9 | 0.00469 | 236 |
| 36 | 1 18.3 | 9.99333 | 324 | 126 | 1 44.2 | 0.00492 | 234 |
| 38 | 1 22.0 | 9.99351 | 322 | 128 | 1 41.4 | 0.00514 | 232 |
| 40 | +1 25.5 — | 9.99370 | 320 | 130 | +1 38.6 — | 0.00536 | 230 |
| 42 | 1 29.0 | 9.99390 | 318 | 132 | 1 35.6 | 0.00557 | 228 |
| 44 | 1 32.3 | 9.99410 | 316 | 134 | 1 32.4 | 0.00577 | 226 |
| 46 | 1 35.5 | 9.99431 | 314 | 136 | 1 29.2 | 0.00597 | 224 |
| 48 | 1 38.6 | 9.99453 | 312 | 138 | 1 25.9 | 0.00616 | 222 |
| 50 | +1 41.6 — | 9.99476 | 310 | 140 | +1 22.5 — | 0.00634 | 220 |
| 52 | 1 44.5 | 9.99499 | 308 | 142 | 1 18.9 | 0.00651 | 218 |
| 54 | 1 47.2 | 9.99523 | 306 | 144 | 1 15.3 | 0.00668 | 216 |
| 56 | 1 49.7 | 9.99547 | 304 | 146 | 1 11.6 | 0.00683 | 214 |
| 58 | 1 52.2 | 9.99572 | 302 | 148 | 1 7.9 | 0.00698 | 212 |
| 60 | +1 54.5 — | 9.99598 | 300 | 150 | +1 4.0 — | 0.00713 | 210 |
| 62 | 1 56.6 | 9.99623 | 298 | 152 | 1 0.1 | 0.00726 | 208 |
| 64 | 1 58.6 | 9.99650 | 296 | 154 | 0 56.1 | 0.00738 | 206 |
| 66 | 2 0.5 | 9.99676 | 294 | 156 | 0 52.0 | 0.00750 | 204 |
| 68 | 2 2.2 | 9.99704 | 292 | 158 | 0 47.9 | 0.00760 | 202 |
| 70 | +2 3.7 — | 9.99731 | 290 | 160 | +0 43.7 — | 0.00770 | 200 |
| 72 | 2 5.1 | 9.99759 | 288 | 162 | 0 39.5 | 0.00779 | 198 |
| 74 | 2 6.4 | 9.99787 | 286 | 164 | 0 35.2 | 0.00787 | 196 |
| 76 | 2 7.5 | 9.99815 | 284 | 166 | 0 30.9 | 0.00794 | 194 |
| 78 | 2 8.4 | 9.99843 | 282 | 168 | 0 26.5 | 0.00800 | 192 |
| 80 | +2 9.2 — | 9.99872 | 280 | 170 | +0 22.2 — | 0.00805 | 190 |
| 82 | 2 9.8 | 9.99900 | 278 | 172 | 0 17.8 | 0.00810 | 188 |
| 84 | 2 10.2 | 9.99929 | 276 | 174 | 0 13.3 | 0.00813 | 186 |
| 86 | 2 10.5 | 9.99958 | 274 | 176 | 0 8.9 | 0.00815 | 184 |
| 88 | 2 10.6 | 9.99987 | 272 | 178 | 0 4.5 | 0.00817 | 182 |
| 90 | +2 10.6 — | 0.00016 | 270 | 180 | +0 0.0 — | 0.00817 | 180 |

## ENCELADUS.

| $0^h$ | $L$ | $M$ | $\log \frac{a(\rho)}{\rho}$ | $\frac{a(\rho)}{\rho} \sin B$ |
|---|---|---|---|---|
| Jan. 1 | 189° 28.′2 | 201.°9 | 1.56930 | −10.″10 |
| 3 | 354 56.2 | 6.7 | 1.56776 | 10.07 |
| 5 | 160 24.2 | 171.5 | 1.56620 | 10.04 |
| 7 | 325 52.1 | 336.3 | 1.56464 | 10.02 |
| 9 | 131 20.1 | 141.1 | 1.56307 | 9.99 |
| 11 | 296 48.1 | 305.8 | 1.56149 | − 9.97 |
| 13 | 102 16.1 | 110.6 | 1.55991 | 9.95 |
| 15 | 267 44.0 | 275.4 | 1.55833 | 9.93 |
| 17 | 73 12.0 | 80.2 | 1.55675 | 9.91 |
| 19 | 238 40.0 | 245.0 | 1.55518 | 9.89 |
| 21 | 44 8.0 | 49.8 | 1.55360 | − 9.87 |
| 23 | 209 36.0 | 214.6 | 1.55203 | 9.86 |
| 25 | 15 4.0 | 19.4 | 1.55047 | 9.85 |
| 27 | 180 31.9 | 184.1 | 1.54892 | 9.84 |
| 29 | 345 59.9 | 348.9 | 1.54738 | 9.83 |
| 31 | 151 27.9 | 153.7 | 1.54585 | − 9.82 |
| Febr. 2 | 316 55.9 | 318.5 | 1.54434 | 9.81 |
| 4 | 122 23.9 | 123.3 | 1.54284 | 9.81 |
| 6 | 287 51.9 | 288.1 | 1.54136 | 9.81 |
| 8 | 93 19.9 | 92.9 | 1.53990 | 9.81 |
| 10 | 258 47.9 | 257.7 | 1.53846 | − 9.81 |
| 12 | 64 15.8 | 62.5 | 1.53704 | 9.81 |
| 14 | 229 43.8 | 227.3 | 1.53564 | 9.81 |
| 16 | 35 11.8 | 32.1 | 1.53427 | 9.82 |
| 18 | 200 39.8 | 196.9 | 1.53292 | 9.82 |
| 20 | 6 7.8 | 1.7 | 1.53160 | − 9.83 |
| 22 | 171 35.8 | 166.5 | 1.53031 | 9.84 |
| 24 | 337 3.7 | 331.3 | 1.52904 | 9.85 |
| 26 | 142 31.7 | 136.1 | 1.52780 | 9.86 |
| 28 | 307 59.7 | 300.8 | 1.52659 | 9.87 |
| März 2 | 113 27.7 | 105.6 | 1.52542 | − 9.88 |
| 4 | 278 55.6 | 270.4 | 1.52427 | 9.90 |
| 6 | 84 23.6 | 75.2 | 1.52316 | 9.91 |
| 8 | 249 51.6 | 240.0 | 1.52208 | 9.93 |
| | | | | |
| Sept. 16 | 294 35.7 | 219.9 | 1.58230 | −14.39 |
| 18 | 100 3.6 | 24.7 | 1.58370 | 14.43 |
| 20 | 265 31.6 | 189.5 | 1.58507 | 14.46 |
| 22 | 70 59.5 | 354.3 | 1.58641 | 14.49 |
| 24 | 236 27.4 | 159.0 | 1.58772 | 14.52 |
| 26 | 41 55.4 | 323.8 | 1.58899 | −14.55 |
| 28 | 207 23.3 | 128.6 | 1.59022 | 14.57 |
| 30 | 12 51.3 | 293.4 | 1.59142 | 14.60 |
| Okt. 2 | 178 19.2 | 98.2 | 1.59257 | 14.62 |
| 4 | 343 47.1 | 263.0 | 1.59368 | −14.64 |
| Okt. 4 | 343° 47.′1 | 263.°0 | 1.59368 | −14.″64 |
| 6 | 149 15.0 | 67.8 | 1.59474 | 14.66 |
| 8 | 314 43.0 | 232.6 | 1.59576 | 14.67 |
| 10 | 120 10.9 | 37.3 | 1.59673 | 14.68 |
| 12 | 285 38.8 | 202.1 | 1.59764 | 14.69 |
| 14 | 91 6.7 | 6.9 | 1.59850 | −14.70 |
| 16 | 256 34.7 | 171.7 | 1.59931 | 14.70 |
| 18 | 62 2.6 | 336.5 | 1.60007 | 14.70 |
| 20 | 227 30.5 | 141.3 | 1.60076 | 14.70 |
| 22 | 32 58.4 | 306.1 | 1.60140 | 14.70 |
| 24 | 198 26.3 | 110.9 | 1.60197 | −14.69 |
| 26 | 3 54.2 | 275.6 | 1.60249 | 14.68 |
| 28 | 169 22.2 | 80.4 | 1.60294 | 14.67 |
| 30 | 334 50.1 | 245.2 | 1.60332 | 14.66 |
| Nov. 1 | 140 18.0 | 50.0 | 1.60364 | 14.64 |
| 3 | 305 45.9 | 214.8 | 1.60390 | −14.62 |
| 5 | 111 13.8 | 19.6 | 1.60409 | 14.60 |
| 7 | 276 41.7 | 184.4 | 1.60421 | 14.57 |
| 9 | 82 9.6 | 349.2 | 1.60427 | 14.55 |
| 11 | 247 37.5 | 153.9 | 1.60426 | 14.52 |
| 13 | 53 5.4 | 318.7 | 1.60419 | −14.49 |
| 15 | 218 33.3 | 123.5 | 1.60405 | 14.46 |
| 17 | 24 1.2 | 288.3 | 1.60384 | 14.43 |
| 19 | 189 29.1 | 93.1 | 1.60356 | 14.39 |
| 21 | 354 57.0 | 257.9 | 1.60322 | 14.36 |
| 23 | 160 24.9 | 62.7 | 1.60281 | −14.32 |
| 25 | 325 52.8 | 227.5 | 1.60234 | 14.28 |
| 27 | 131 20.7 | 32.2 | 1.60181 | 14.24 |
| 29 | 296 48.6 | 197.0 | 1.60121 | 14.20 |
| Dez. 1 | 102 16.5 | 1.8 | 1.60055 | 14.15 |
| 3 | 267 44.4 | 166.6 | 1.59983 | −14.11 |
| 5 | 73 12.3 | 331.4 | 1.59906 | 14.06 |
| 7 | 238 40.2 | 136.2 | 1.59823 | 14.02 |
| 9 | 44 8.1 | 301.0 | 1.59734 | 13.97 |
| 11 | 209 36.0 | 105.8 | 1.59640 | 13.92 |
| 13 | 15 3.8 | 270.6 | 1.59540 | −13.87 |
| 15 | 180 31.7 | 75.4 | 1.59436 | 13.82 |
| 17 | 345 59.6 | 240.2 | 1.59327 | 13.77 |
| 19 | 151 27.5 | 45.0 | 1.59213 | 13.72 |
| 21 | 316 55.4 | 209.8 | 1.59095 | 13.67 |
| 23 | 122 23.3 | 14.6 | 1.58972 | −13.62 |
| 25 | 287 51.1 | 179.4 | 1.58846 | 13.57 |
| 27 | 93 19.0 | 344.2 | 1.58715 | 13.52 |
| 29 | 258 46.9 | 148.9 | 1.58582 | 13.48 |
| 31 | 64 14.8 | 313.7 | 1.58445 | −13.43 |

## ENCELADUS.

| $M$ | $v - M$ | $\log \frac{r}{a}$ | $M$ | $M$ | $v - M$ | $\log \frac{r}{a}$ | $M$ |
|---|---|---|---|---|---|---|---|
| 0° | + 0.0 | 9.99800 | 360° | 90° | + 31.6 | 0.00001 | 270° |
| 2 | 1.1 | 9.99800 | 358 | 92 | 31.6 | 0.00008 | 268 |
| 4 | 2.2 | 9.99800 | 356 | 94 | 31.5 | 0.00015 | 266 |
| 6 | 3.3 | 9.99801 | 354 | 96 | 31.4 | 0.00022 | 264 |
| 8 | 4.4 | 9.99802 | 352 | 98 | 31.3 | 0.00029 | 262 |
| 10 | + 5.5 | 9.99803 | 350 | 100 | + 31.1 | 0.00035 | 260 |
| 12 | 6.6 | 9.99804 | 348 | 102 | 30.9 | 0.00042 | 258 |
| 14 | 7.7 | 9.99806 | 346 | 104 | 30.6 | 0.00049 | 256 |
| 16 | 8.8 | 9.99808 | 344 | 106 | 30.3 | 0.00056 | 254 |
| 18 | 9.8 | 9.99810 | 342 | 108 | 30.0 | 0.00062 | 252 |
| 20 | + 10.9 | 9.99812 | 340 | 110 | + 29.7 | 0.00069 | 250 |
| 22 | 11.9 | 9.99814 | 338 | 112 | 29.3 | 0.00075 | 248 |
| 24 | 12.9 | 9.99817 | 336 | 114 | 28.8 | 0.00082 | 246 |
| 26 | 13.9 | 9.99820 | 334 | 116 | 28.3 | 0.00088 | 244 |
| 28 | 14.9 | 9.99823 | 332 | 118 | 27.8 | 0.00094 | 242 |
| 30 | + 15.9 | 9.99827 | 330 | 120 | + 27.3 | 0.00100 | 240 |
| 32 | 16.8 | 9.99830 | 328 | 122 | 26.7 | 0.00106 | 238 |
| 34 | 17.8 | 9.99834 | 326 | 124 | 26.1 | 0.00112 | 236 |
| 36 | 18.7 | 9.99838 | 324 | 126 | 25.5 | 0.00118 | 234 |
| 38 | 19.6 | 9.99842 | 322 | 128 | 24.8 | 0.00123 | 232 |
| 40 | + 20.4 | 9.99847 | 320 | 130 | + 24.1 | 0.00129 | 230 |
| 42 | 21.3 | 9.99852 | 318 | 132 | 23.4 | 0.00134 | 228 |
| 44 | 22.1 | 9.99856 | 316 | 134 | 22.7 | 0.00139 | 226 |
| 46 | 22.8 | 9.99861 | 314 | 136 | 21.9 | 0.00144 | 224 |
| 48 | 23.6 | 9.99866 | 312 | 138 | 21.1 | 0.00148 | 222 |
| 50 | + 24.3 | 9.99872 | 310 | 140 | + 20.2 | 0.00153 | 220 |
| 52 | 25.0 | 9.99877 | 308 | 142 | 19.4 | 0.00157 | 218 |
| 54 | 25.7 | 9.99883 | 306 | 144 | 18.5 | 0.00162 | 216 |
| 56 | 26.3 | 9.99889 | 304 | 146 | 17.6 | 0.00166 | 214 |
| 58 | 26.9 | 9.99895 | 302 | 148 | 16.7 | 0.00169 | 212 |
| 60 | + 27.5 | 9.99901 | 300 | 150 | + 15.7 | 0.00173 | 210 |
| 62 | 28.0 | 9.99907 | 298 | 152 | 14.8 | 0.00176 | 208 |
| 64 | 28.5 | 9.99913 | 296 | 154 | 13.8 | 0.00179 | 206 |
| 66 | 29.0 | 9.99919 | 294 | 156 | 12.8 | 0.00182 | 204 |
| 68 | 29.4 | 9.99926 | 292 | 158 | 11.8 | 0.00185 | 202 |
| 70 | + 29.8 | 9.99932 | 290 | 160 | + 10.8 | 0.00187 | 200 |
| 72 | 30.1 | 9.99939 | 288 | 162 | 9.7 | 0.00190 | 198 |
| 74 | 30.4 | 9.99946 | 286 | 164 | 8.7 | 0.00192 | 196 |
| 76 | 30.7 | 9.99952 | 284 | 166 | 7.6 | 0.00193 | 194 |
| 78 | 31.0 | 9.99959 | 282 | 168 | 6.5 | 0.00195 | 192 |
| 80 | + 31.2 | 9.99966 | 280 | 170 | + 5.5 | 0.00196 | 190 |
| 82 | 31.3 | 9.99973 | 278 | 172 | 4.4 | 0.00197 | 188 |
| 84 | 31.5 | 9.99980 | 276 | 174 | 3.3 | 0.00198 | 186 |
| 86 | 31.6 | 9.99987 | 274 | 176 | 2.2 | 0.00199 | 184 |
| 88 | 31.6 | 9.99994 | 272 | 178 | 1.1 | 0.00199 | 182 |
| 90 | + 31.6 | 0.00001 | 270 | 180 | + 0.0 | 0.00199 | 180 |

## TETHYS.

| $0^h$ | $L$ | $\log \frac{a(\rho)}{\rho}$ | $\frac{a(\rho)}{\rho} \sin B$ |
|---|---|---|---|
| Jan. 1 | 5° 29.4' | 1.66199 | −12.51" |
| 3 | 26 53.1 | 1.66045 | 12.47 |
| 5 | 48 16.8 | 1.65889 | 12.43 |
| 7 | 69 40.5 | 1.65733 | 12.40 |
| 9 | 91 4.2 | 1.65576 | 12.37 |
| 11 | 112 27.9 | 1.65418 | −12.34 |
| 13 | 133 51.6 | 1.65260 | 12.31 |
| 15 | 155 15.3 | 1.65102 | 12.29 |
| 17 | 176 39.0 | 1.64944 | 12.26 |
| 19 | 198 2.7 | 1.64787 | 12.24 |
| 21 | 219 26.4 | 1.64629 | −12.22 |
| 23 | 240 50.1 | 1.64472 | 12.21 |
| 25 | 262 13.8 | 1.64316 | 12.19 |
| 27 | 283 37.6 | 1.64161 | 12.18 |
| 29 | 305 1.3 | 1.64007 | 12.17 |
| 31 | 326 25.0 | 1.63854 | −12.16 |
| Febr. 2 | 347 48.7 | 1.63703 | 12.15 |
| 4 | 9 12.4 | 1.63553 | 12.14 |
| 6 | 30 36.1 | 1.63405 | 12.14 |
| 8 | 51 59.8 | 1.63259 | 12.14 |
| 10 | 73 23.5 | 1.63115 | −12.14 |
| 12 | 94 47.2 | 1.62973 | 12.14 |
| 14 | 116 10.9 | 1.62833 | 12.14 |
| 16 | 137 34.6 | 1.62696 | 12.15 |
| 18 | 158 58.3 | 1.62561 | 12.16 |
| 20 | 180 22.0 | 1.62429 | −12.17 |
| 22 | 201 45.7 | 1.62300 | 12.18 |
| 24 | 223 9.4 | 1.62173 | 12.19 |
| 26 | 244 33.1 | 1.62049 | 12.20 |
| 28 | 265 56.8 | 1.61928 | 12.22 |
| März 2 | 287 20.6 | 1.61811 | −12.24 |
| 4 | 308 44.3 | 1.61696 | 12.26 |
| 6 | 330 8.0 | 1.61585 | 12.28 |
| 8 | 351 31.7 | 1.61477 | 12.30 |
| | | | |
| Sept. 16 | 245 27.2 | 1.67500 | −17.82 |
| 18 | 266 50.9 | 1.67640 | 17.86 |
| 20 | 288 14.6 | 1.67777 | 17.90 |
| 22 | 309 38.3 | 1.67911 | 17.94 |
| 24 | 331 2.1 | 1.68042 | 17.98 |
| 26 | 352 25.8 | 1.68169 | −18.02 |
| 28 | 13 49.5 | 1.68292 | 18.05 |
| 30 | 35 13.2 | 1.68412 | 18.08 |
| Okt. 2 | 56 36.9 | 1.68527 | 18.10 |
| 4 | 78 0.6 | 1.68638 | 18.12 |

| $0^h$ | $L$ | $\log \frac{a(\rho)}{\rho}$ | $\frac{a(\rho)}{\rho} \sin B$ |
|---|---|---|---|
| Okt. 4 | 78° 0.6' | 1.68638 | −18.12" |
| 6 | 99 24.3 | 1.68744 | 18.14 |
| 8 | 120 48.0 | 1.68846 | 18.16 |
| 10 | 142 11.8 | 1.68943 | 18.17 |
| 12 | 163 35.5 | 1.69034 | 18.18 |
| 14 | 184 59.2 | 1.69120 | −18.19 |
| 16 | 206 22.9 | 1.69201 | 18.19 |
| 18 | 227 46.6 | 1.69277 | 18.19 |
| 20 | 249 10.3 | 1.69346 | 18.19 |
| 22 | 270 34.0 | 1.69410 | 18.19 |
| 24 | 291 57.7 | 1.69467 | −18.18 |
| 26 | 313 21.4 | 1.69519 | 18.17 |
| 28 | 334 45.1 | 1.69564 | 18.16 |
| 30 | 356 8.8 | 1.69602 | 18.14 |
| Nov. 1 | 17 32.5 | 1.69634 | 18.12 |
| 3 | 38 56.2 | 1.69660 | −18.10 |
| 5 | 60 19.9 | 1.69679 | 18.08 |
| 7 | 81 43.6 | 1.69691 | 18.05 |
| 9 | 103 7.3 | 1.69697 | 18.02 |
| 11 | 124 31.0 | 1.69696 | 17.98 |
| 13 | 145 54.7 | 1.69689 | −17.94 |
| 15 | 167 18.4 | 1.69675 | 17.90 |
| 17 | 188 42.1 | 1.69654 | 17.86 |
| 19 | 210 5.8 | 1.69626 | 17.82 |
| 21 | 231 29.5 | 1.69592 | 17.77 |
| 23 | 252 53.2 | 1.69551 | −17.72 |
| 25 | 274 16.9 | 1.69504 | 17.67 |
| 27 | 295 40.6 | 1.69451 | 17.62 |
| 29 | 317 4.3 | 1.69391 | 17.57 |
| Dez. 1 | 338 28.0 | 1.69325 | 17.51 |
| 3 | 359 51.7 | 1.69253 | −17.46 |
| 5 | 21 15.4 | 1.69176 | 17.40 |
| 7 | 42 39.1 | 1.69093 | 17.34 |
| 9 | 64 2.8 | 1.69004 | 17.28 |
| 11 | 85 26.5 | 1.68910 | 17.22 |
| 13 | 106 50.2 | 1.68810 | −17.16 |
| 15 | 128 13.9 | 1.68706 | 17.10 |
| 17 | 149 37.6 | 1.68597 | 17.04 |
| 19 | 171 1.3 | 1.68483 | 16.98 |
| 21 | 192 25.0 | 1.68365 | 16.92 |
| 23 | 213 48.7 | 1.68242 | −16.86 |
| 25 | 235 12.4 | 1.68116 | 16.80 |
| 27 | 256 36.1 | 1.67985 | 16.74 |
| 29 | 277 59.8 | 1.67852 | 16.68 |
| 31 | 299 23.6 | 1.67715 | 16.62 |

## DIONE.

| $0^h$ | L | | M | $\log \frac{a(\rho)}{\rho}$ | $\frac{a(\rho)}{\rho} \sin B$ |
|---|---|---|---|---|---|
| Jan. 1 | 88° | 30.6′ | 94.9° | 1.76947 | −16.01″ |
| 3 | 351 | 34.8 | 357.8 | 1.76793 | 15.97 |
| 5 | 254 | 39.0 | 260.7 | 1.76637 | 15.92 |
| 7 | 157 | 43.1 | 163.6 | 1.76481 | 15.88 |
| 9 | 60 | 47.3 | 66.5 | 1.76324 | 15.84 |
| 11 | 323 | 51.4 | 329.4 | 1.76166 | −15.80 |
| 13 | 226 | 55.6 | 232.3 | 1.76008 | 15.77 |
| 15 | 129 | 59.8 | 135.2 | 1.75850 | 15.74 |
| 17 | 33 | 3.9 | 38.1 | 1.75692 | 15.71 |
| 19 | 296 | 8.1 | 301.0 | 1.75535 | 15.68 |
| 21 | 199 | 12.3 | 203.9 | 1.75377 | −15.65 |
| 23 | 102 | 16.4 | 106.8 | 1.75220 | 15.63 |
| 25 | 5 | 20.6 | 9.7 | 1.75064 | 15.61 |
| 27 | 268 | 24.8 | 272.6 | 1.74909 | 15.59 |
| 29 | 171 | 28.9 | 175.5 | 1.74755 | 15.57 |
| 31 | 74 | 33.1 | 78.4 | 1.74602 | −15.56 |
| Febr. 2 | 337 | 37.2 | 341.3 | 1.74451 | 15.55 |
| 4 | 240 | 41.4 | 244.2 | 1.74301 | 15.55 |
| 6 | 143 | 45.6 | 147.1 | 1.74153 | 15.55 |
| 8 | 46 | 49.7 | 50.0 | 1.74007 | 15.55 |
| 10 | 309 | 53.9 | 312.9 | 1.73863 | −15.55 |
| 12 | 212 | 58.1 | 215.8 | 1.73721 | 15.55 |
| 14 | 116 | 2.3 | 118.7 | 1.73581 | 15.55 |
| 16 | 19 | 6.4 | 21.6 | 1.73444 | 15.56 |
| 18 | 282 | 10.6 | 284.5 | 1.73309 | 15.57 |
| 20 | 185 | 14.8 | 187.4 | 1.73177 | −15.58 |
| 22 | 88 | 19.0 | 90.3 | 1.73048 | 15.59 |
| 24 | 351 | 23.1 | 353.2 | 1.72921 | 15.61 |
| 26 | 254 | 27.3 | 256.1 | 1.72797 | 15.63 |
| 28 | 157 | 31.5 | 159.0 | 1.72676 | 15.65 |
| März 2 | 60 | 35.7 | 61.9 | 1.72559 | −15.67 |
| 4 | 323 | 39.8 | 324.8 | 1.72444 | 15.70 |
| 6 | 226 | 44.0 | 227.7 | 1.72333 | 15.72 |
| 8 | 129 | 48.2 | 130.6 | 1.72225 | 15.75 |
| | | | | | |
| Sept. 16 | 184 | 28.0 | 169.0 | 1.78247 | −22.82 |
| 18 | 87 | 32.2 | 71.9 | 1.78387 | 22.88 |
| 20 | 350 | 36.4 | 334.8 | 1.78524 | 22.93 |
| 22 | 253 | 40.5 | 237.7 | 1.78658 | 22.98 |
| 24 | 156 | 44.7 | 140.6 | 1.78789 | 23.03 |
| 26 | 59 | 48.9 | 43.5 | 1.78916 | −23.07 |
| 28 | 322 | 53.0 | 306.4 | 1.79039 | 23.11 |
| 30 | 225 | 57.2 | 209.3 | 1.79159 | 23.15 |
| Okt. 2 | 129 | 1.4 | 112.2 | 1.79274 | 23.18 |
| 4 | 32 | 5.6 | 15.1 | 1.79385 | 23.21 |
| Okt. 4 | 32° | 5.6′ | 15.1° | 1.79385 | −23.21″ |
| 6 | 295 | 9.7 | 278.0 | 1.79491 | 23.23 |
| 8 | 198 | 13.9 | 180.9 | 1.79593 | 23.25 |
| 10 | 101 | 18.0 | 83.8 | 1.79690 | 23.27 |
| 12 | 4 | 22.2 | 346.7 | 1.79781 | 23.28 |
| 14 | 267 | 26.4 | 249.6 | 1.79867 | −23.29 |
| 16 | 170 | 30.5 | 152.5 | 1.79948 | 23.30 |
| 18 | 73 | 34.7 | 55.4 | 1.80024 | 23.30 |
| 20 | 336 | 38.9 | 318.3 | 1.80093 | 23.30 |
| 22 | 239 | 43.0 | 221.2 | 1.80157 | 23.29 |
| 24 | 142 | 47.2 | 124.1 | 1.80214 | −23.28 |
| 26 | 45 | 51.4 | 27.0 | 1.80266 | 23.27 |
| 28 | 308 | 55.6 | 289.9 | 1.80311 | 23.25 |
| 30 | 211 | 59.7 | 192.8 | 1.80349 | 23.23 |
| Nov. 1 | 115 | 3.9 | 95.7 | 1.80381 | 23.21 |
| 3 | 18 | 8.1 | 358.6 | 1.80407 | −23.18 |
| 5 | 281 | 12.3 | 261.5 | 1.80426 | 23.15 |
| 7 | 184 | 16.4 | 164.4 | 1.80438 | 23.11 |
| 9 | 87 | 20.6 | 67.3 | 1.80444 | 23.07 |
| 11 | 350 | 24.8 | 330.2 | 1.80443 | 23.03 |
| 13 | 253 | 28.9 | 233.1 | 1.80436 | −22.98 |
| 15 | 156 | 33.1 | 136.0 | 1.80422 | 22.93 |
| 17 | 59 | 37.2 | 38.9 | 1.80401 | 22.88 |
| 19 | 322 | 41.4 | 301.8 | 1.80373 | 22.82 |
| 21 | 225 | 45.6 | 204.7 | 1.80339 | 22.76 |
| 23 | 128 | 49.8 | 107.6 | 1.80298 | −22.70 |
| 25 | 31 | 53.9 | 10.5 | 1.80251 | 22.64 |
| 27 | 294 | 58.1 | 273.4 | 1.80198 | 22.57 |
| 29 | 198 | 2.3 | 176.3 | 1.80138 | 22.50 |
| Dez. 1 | 101 | 6.5 | 79.2 | 1.80072 | 22.43 |
| 3 | 4 | 10.6 | 342.1 | 1.80000 | −22.36 |
| 5 | 267 | 14.8 | 245.0 | 1.79923 | 22.29 |
| 7 | 170 | 19.0 | 147.9 | 1.79840 | 22.22 |
| 9 | 73 | 23.1 | 50.8 | 1.79751 | 22.14 |
| 11 | 336 | 27.3 | 313.7 | 1.79657 | 22.07 |
| 13 | 239 | 31.4 | 216.6 | 1.79557 | −21.99 |
| 15 | 142 | 35.6 | 119.5 | 1.79453 | 21.92 |
| 17 | 45 | 39.8 | 22.4 | 1.79344 | 21.84 |
| 19 | 308 | 43.9 | 285.3 | 1.79230 | 21.76 |
| 21 | 211 | 48.1 | 188.2 | 1.79112 | 21.68 |
| 23 | 114 | 52.3 | 91.1 | 1.78989 | −21.60 |
| 25 | 17 | 56.4 | 354.0 | 1.78863 | 21.52 |
| 27 | 281 | 0.6 | 256.9 | 1.78732 | 21.44 |
| 29 | 184 | 4.8 | 159.8 | 1.78599 | 21.37 |
| 31 | 87 | 9.0 | 62.7 | 1.78462 | 21.29 |

## DIONE.

| $M$ | $v - M$ | $\log \frac{r}{a}$ | $M$ | $M$ | $v - M$ | $\log \frac{r}{a}$ | $M$ |
|---|---|---|---|---|---|---|---|
| 0° | + 0.0 − | 9.99913 | 360° | 90° | + 13.8 − | 0.00000 | 270° |
| 2 | 0.5 | 9.99913 | 358 | 92 | 13.7 | 0.00003 | 268 |
| 4 | 1.0 | 9.99913 | 356 | 94 | 13.7 | 0.00006 | 266 |
| 6 | 1.4 | 9.99913 | 354 | 96 | 13.7 | 0.00009 | 264 |
| 8 | 1.9 | 9.99914 | 352 | 98 | 13.6 | 0.00012 | 262 |
| 10 | + 2.4 − | 9.99914 | 350 | 100 | + 13.5 − | 0.00015 | 260 |
| 12 | 2.9 | 9.99915 | 348 | 102 | 13.4 | 0.00018 | 258 |
| 14 | 3.3 | 9.99916 | 346 | 104 | 13.3 | 0.00021 | 256 |
| 16 | 3.8 | 9.99916 | 344 | 106 | 13.2 | 0.00024 | 254 |
| 18 | 4.3 | 9.99917 | 342 | 108 | 13.1 | 0.00027 | 252 |
| 20 | + 4.7 − | 9.99918 | 340 | 110 | + 12.9 − | 0.00030 | 250 |
| 22 | 5.2 | 9.99919 | 338 | 112 | 12.7 | 0.00033 | 248 |
| 24 | 5.6 | 9.99921 | 336 | 114 | 12.5 | 0.00035 | 246 |
| 26 | 6.0 | 9.99922 | 334 | 116 | 12.3 | 0.00038 | 244 |
| 28 | 6.5 | 9.99923 | 332 | 118 | 12.1 | 0.00041 | 242 |
| 30 | + 6.9 − | 9.99925 | 330 | 120 | + 11.9 − | 0.00044 | 240 |
| 32 | 7.3 | 9.99926 | 328 | 122 | 11.6 | 0.00046 | 238 |
| 34 | 7.7 | 9.99928 | 326 | 124 | 11.4 | 0.00049 | 236 |
| 36 | 8.1 | 9.99930 | 324 | 126 | 11.1 | 0.00051 | 234 |
| 38 | 8.5 | 9.99931 | 322 | 128 | 10.8 | 0.00053 | 232 |
| 40 | + 8.9 − | 9.99933 | 320 | 130 | + 10.5 − | 0.00056 | 230 |
| 42 | 9.2 | 9.99935 | 318 | 132 | 10.2 | 0.00058 | 228 |
| 44 | 9.6 | 9.99937 | 316 | 134 | 9.9 | 0.00060 | 226 |
| 46 | 9.9 | 9.99940 | 314 | 136 | 9.5 | 0.00062 | 224 |
| 48 | 10.2 | 9.99942 | 312 | 138 | 9.2 | 0.00065 | 222 |
| 50 | + 10.6 − | 9.99944 | 310 | 140 | + 8.8 − | 0.00067 | 220 |
| 52 | 10.9 | 9.99947 | 308 | 142 | 8.4 | 0.00068 | 218 |
| 54 | 11.1 | 9.99949 | 306 | 144 | 8.1 | 0.00070 | 216 |
| 56 | 11.4 | 9.99951 | 304 | 146 | 7.7 | 0.00072 | 214 |
| 58 | 11.7 | 9.99954 | 302 | 148 | 7.3 | 0.00074 | 212 |
| 60 | + 11.9 − | 9.99957 | 300 | 150 | + 6.9 − | 0.00075 | 210 |
| 62 | 12.2 | 9.99959 | 298 | 152 | 6.4 | 0.00077 | 208 |
| 64 | 12.4 | 9.99962 | 296 | 154 | 6.0 | 0.00078 | 206 |
| 66 | 12.6 | 9.99965 | 294 | 156 | 5.6 | 0.00079 | 204 |
| 68 | 12.8 | 9.99967 | 292 | 158 | 5.1 | 0.00080 | 202 |
| 70 | + 12.9 − | 9.99970 | 290 | 160 | + 4.7 − | 0.00081 | 200 |
| 72 | 13.1 | 9.99973 | 288 | 162 | 4.2 | 0.00082 | 198 |
| 74 | 13.2 | 9.99976 | 286 | 164 | 3.8 | 0.00083 | 196 |
| 76 | 13.3 | 9.99979 | 284 | 166 | 3.3 | 0.00084 | 194 |
| 78 | 13.4 | 9.99982 | 282 | 168 | 2.9 | 0.00085 | 192 |
| 80 | + 13.5 − | 9.99985 | 280 | 170 | + 2.4 − | 0.00085 | 190 |
| 82 | 13.6 | 9.99988 | 278 | 172 | 1.9 | 0.00086 | 188 |
| 84 | 13.7 | 9.99991 | 276 | 174 | 1.4 | 0.00086 | 186 |
| 86 | 13.7 | 9.99994 | 274 | 176 | 1.0 | 0.00086 | 184 |
| 88 | 13.7 | 9.99997 | 272 | 178 | 0.5 | 0.00087 | 182 |
| 90 | + 13.8 − | 0.00000 | 270 | 180 | + 0.0 − | 0.00087 | 180 |

## RHEA.

| $0^h$ | $L$ | $M$ | $\log \frac{a(\rho)}{\rho}$ | $\frac{a(\rho)}{\rho} \sin B$ |
|---|---|---|---|---|
| Jan. 1 | 127° 29.7' | 88.6° | 1.91451 | −22.37" |
| 3 | 286 52.5 | 247.9 | 1.91297 | 22.30 |
| 5 | 86 15.3 | 47.2 | 1.91141 | 22.24 |
| 7 | 245 38.1 | 206.6 | 1.90985 | 22.18 |
| 9 | 45 0.9 | 5.9 | 1.90828 | 22.12 |
| 11 | 204 23.7 | 165.2 | 1.90670 | −22.07 |
| 13 | 3 46.5 | 324.5 | 1.90512 | 22.02 |
| 15 | 163 9.3 | 123.9 | 1.90354 | 21.97 |
| 17 | 322 32.1 | 283.2 | 1.90196 | 21.93 |
| 19 | 121 54.9 | 82.5 | 1.90039 | 21.89 |
| 21 | 281 17.7 | 241.8 | 1.89881 | −21.86 |
| 23 | 80 40.5 | 41.2 | 1.89724 | 21.83 |
| 25 | 240 3.3 | 200.5 | 1.89568 | 21.80 |
| 27 | 39 26.1 | 359.8 | 1.89413 | 21.78 |
| 29 | 198 48.9 | 159.1 | 1.89259 | 21.76 |
| 31 | 358 11.7 | 318.5 | 1.89106 | −21.74 |
| Febr. 2 | 157 34.5 | 117.8 | 1.88955 | 21.73 |
| 4 | 316 57.3 | 277.1 | 1.88805 | 21.72 |
| 6 | 116 20.1 | 76.4 | 1.88657 | 21.71 |
| 8 | 275 42.9 | 235.8 | 1.88511 | 21.71 |
| 10 | 75 5.7 | 35.1 | 1.88367 | −21.71 |
| 12 | 234 28.5 | 194.4 | 1.88225 | 21.71 |
| 14 | 33 51.3 | 353.7 | 1.88085 | 21.72 |
| 16 | 193 14.1 | 153.1 | 1.87948 | 21.73 |
| 18 | 352 36.9 | 312.4 | 1.87813 | 21.74 |
| 20 | 151 59.7 | 111.7 | 1.87681 | −21.76 |
| 22 | 311 22.5 | 271.0 | 1.87552 | 21.78 |
| 24 | 110 45.3 | 70.4 | 1.87425 | 21.80 |
| 26 | 270 8.1 | 229.7 | 1.87301 | 21.82 |
| 28 | 69 30.9 | 29.0 | 1.87180 | 21.85 |
| März 2 | 228 53.7 | 188.3 | 1.87063 | −21.88 |
| 4 | 28 16.5 | 347.7 | 1.86948 | 21.91 |
| 6 | 187 39.3 | 147.0 | 1.86837 | 21.95 |
| 8 | 347 2.1 | 306.3 | 1.86729 | 21.99 |
| Sept. 16 | 167 30.4 | 121.5 | 1.92751 | −31.87 |
| 18 | 326 53.2 | 280.8 | 1.92891 | 31.95 |
| 20 | 126 16.0 | 80.1 | 1.93028 | 32.02 |
| 22 | 285 38.8 | 239.4 | 1.93162 | 32.09 |
| 24 | 85 1.6 | 38.8 | 1.93293 | 32.15 |
| 26 | 244 24.4 | 198.1 | 1.93420 | −32.21 |
| 28 | 43 47.2 | 357.4 | 1.93543 | 32.26 |
| 30 | 203 10.0 | 156.7 | 1.93663 | 32.31 |
| Okt. 2 | 2 32.8 | 316.0 | 1.93778 | 32.36 |
| 4 | 161 55.6 | 115.3 | 1.93889 | 32.40 |

| $0^h$ | $L$ | $M$ | $\log \frac{a(\rho)}{\rho}$ | $\frac{a(\rho)}{\rho} \sin B$ |
|---|---|---|---|---|
| Okt. 4 | 161° 55.6' | 115.3° | 1.93889 | −32.40" |
| 6 | 321 18.4 | 274.7 | 1.93995 | 32.43 |
| 8 | 120 41.2 | 74.0 | 1.94097 | 32.46 |
| 10 | 280 4.0 | 233.3 | 1.94194 | 32.49 |
| 12 | 79 26.8 | 32.6 | 1.94285 | 32.51 |
| 14 | 238 49.6 | 192.0 | 1.94371 | −32.53 |
| 16 | 38 12.4 | 351.3 | 1.94452 | 32.54 |
| 18 | 197 35.2 | 150.6 | 1.94528 | 32.54 |
| 20 | 356 58.0 | 309.9 | 1.94597 | 32.54 |
| 22 | 156 20.8 | 109.3 | 1.94661 | 32.53 |
| 24 | 315 43.6 | 268.6 | 1.94718 | −32.52 |
| 26 | 115 6.4 | 67.9 | 1.94770 | 32.50 |
| 28 | 274 29.2 | 227.2 | 1.94815 | 32.48 |
| 30 | 73 52.0 | 26.6 | 1.94853 | 32.45 |
| Nov. 1 | 233 14.8 | 185.9 | 1.94885 | 32.41 |
| 3 | 32 37.6 | 345.2 | 1.94911 | −32.37 |
| 5 | 192 0.4 | 144.5 | 1.94930 | 32.32 |
| 7 | 351 23.2 | 303.9 | 1.94942 | 32.27 |
| 9 | 150 46.0 | 103.2 | 1.94948 | 32.22 |
| 11 | 310 8.8 | 262.5 | 1.94947 | 32.16 |
| 13 | 109 31.5 | 61.8 | 1.94940 | −32.09 |
| 15 | 268 54.3 | 221.2 | 1.94926 | 32.02 |
| 17 | 68 17.1 | 20.5 | 1.94905 | 31.95 |
| 19 | 227 39.9 | 179.8 | 1.94877 | 31.87 |
| 21 | 27 2.7 | 339.1 | 1.94843 | 31.79 |
| 23 | 186 25.5 | 138.5 | 1.94802 | −31.70 |
| 25 | 345 48.3 | 297.8 | 1.94755 | 31.61 |
| 27 | 145 11.0 | 97.1 | 1.94702 | 31.52 |
| 29 | 304 33.8 | 256.4 | 1.94642 | 31.43 |
| Dez. 1 | 103 56.6 | 55.8 | 1.94576 | 31.33 |
| 3 | 263 19.4 | 215.1 | 1.94504 | −31.23 |
| 5 | 62 42.2 | 14.4 | 1.94427 | 31.13 |
| 7 | 222 5.0 | 173.7 | 1.94344 | 31.03 |
| 9 | 21 27.8 | 333.1 | 1.94255 | 30.92 |
| 11 | 180 50.6 | 132.4 | 1.94161 | 30.82 |
| 13 | 340 13.4 | 291.7 | 1.94061 | −30.71 |
| 15 | 139 36.2 | 91.0 | 1.93957 | 30.60 |
| 17 | 298 59.0 | 250.4 | 1.93848 | 30.49 |
| 19 | 98 21.8 | 49.7 | 1.93734 | 30.38 |
| 21 | 257 44.6 | 209.0 | 1.93616 | 30.27 |
| 23 | 57 7.4 | 8.3 | 1.93493 | −30.16 |
| 25 | 216 30.2 | 167.7 | 1.93367 | 30.05 |
| 27 | 15 53.0 | 327.0 | 1.93236 | 29.94 |
| 29 | 175 15.8 | 126.3 | 1.93103 | 29.84 |
| 31 | 334 38.5 | 285.6 | 1.92966 | 29.73 |

## RHEA.

| $M$ | $v - M$ | $\log \frac{r}{a}$ | $M$ | $M$ | $v - M$ | $\log \frac{r}{a}$ | $M$ |
|---|---|---|---|---|---|---|---|
| 0° | +0.0'— | 9.99961 | 360° | 90° | +6.2'— | 0.00000 | 270° |
| 2 | 0.2 | 9.99961 | 358 | 92 | 6.2 | 0.00001 | 268 |
| 4 | 0.4 | 9.99961 | 356 | 94 | 6.2 | 0.00003 | 266 |
| 6 | 0.6 | 9.99961 | 354 | 96 | 6.2 | 0.00004 | 264 |
| 8 | 0.9 | 9.99961 | 352 | 98 | 6.1 | 0.00005 | 262 |
| 10 | +1.1— | 9.99961 | 350 | 100 | +6.1— | 0.00007 | 260 |
| 12 | 1.3 | 9.99962 | 348 | 102 | 6.1 | 0.00008 | 258 |
| 14 | 1.5 | 9.99962 | 346 | 104 | 6.0 | 0.00009 | 256 |
| 16 | 1.7 | 9.99962 | 344 | 106 | 5.9 | 0.00011 | 254 |
| 18 | 1.9 | 9.99963 | 342 | 108 | 5.9 | 0.00012 | 252 |
| 20 | +2.1— | 9.99963 | 340 | 110 | +5.8— | 0.00013 | 250 |
| 22 | 2.3 | 9.99964 | 338 | 112 | 5.7 | 0.00015 | 248 |
| 24 | 2.5 | 9.99964 | 336 | 114 | 5.7 | 0.00016 | 246 |
| 26 | 2.7 | 9.99965 | 334 | 116 | 5.6 | 0.00017 | 244 |
| 28 | 2.9 | 9.99966 | 332 | 118 | 5.5 | 0.00018 | 242 |
| 30 | +3.1— | 9.99966 | 330 | 120 | +5.4— | 0.00019 | 240 |
| 32 | 3.3 | 9.99967 | 328 | 122 | 5.2 | 0.00021 | 238 |
| 34 | 3.5 | 9.99968 | 326 | 124 | 5.1 | 0.00022 | 236 |
| 36 | 3.6 | 9.99968 | 324 | 126 | 5.0 | 0.00023 | 234 |
| 38 | 3.8 | 9.99969 | 322 | 128 | 4.9 | 0.00024 | 232 |
| 40 | +4.0— | 9.99970 | 320 | 130 | +4.7— | 0.00025 | 230 |
| 42 | 4.1 | 9.99971 | 318 | 132 | 4.6 | 0.00026 | 228 |
| 44 | 4.3 | 9.99972 | 316 | 134 | 4.5 | 0.00027 | 226 |
| 46 | 4.5 | 9.99973 | 314 | 136 | 4.3 | 0.00028 | 224 |
| 48 | 4.6 | 9.99974 | 312 | 138 | 4.1 | 0.00029 | 222 |
| 50 | +4.7— | 9.99975 | 310 | 140 | +4.0— | 0.00030 | 220 |
| 52 | 4.9 | 9.99976 | 308 | 142 | 3.8 | 0.00031 | 218 |
| 54 | 5.0 | 9.99977 | 306 | 144 | 3.6 | 0.00032 | 216 |
| 56 | 5.1 | 9.99978 | 304 | 146 | 3.5 | 0.00032 | 214 |
| 58 | 5.2 | 9.99979 | 302 | 148 | 3.3 | 0.00033 | 212 |
| 60 | +5.4— | 9.99980 | 300 | 150 | +3.1— | 0.00034 | 210 |
| 62 | 5.5 | 9.99982 | 298 | 152 | 2.9 | 0.00034 | 208 |
| 64 | 5.6 | 9.99983 | 296 | 154 | 2.7 | 0.00035 | 206 |
| 66 | 5.7 | 9.99984 | 294 | 156 | 2.5 | 0.00036 | 204 |
| 68 | 5.7 | 9.99985 | 292 | 158 | 2.3 | 0.00036 | 202 |
| 70 | +5.8— | 9.99987 | 290 | 160 | +2.1— | 0.00037 | 200 |
| 72 | 5.9 | 9.99988 | 288 | 162 | 1.9 | 0.00037 | 198 |
| 74 | 5.9 | 9.99989 | 286 | 164 | 1.7 | 0.00037 | 196 |
| 76 | 6.0 | 9.99991 | 284 | 166 | 1.5 | 0.00038 | 194 |
| 78 | 6.1 | 9.99992 | 282 | 168 | 1.3 | 0.00038 | 192 |
| 80 | +6.1— | 9.99993 | 280 | 170 | +1.1— | 0.00038 | 190 |
| 82 | 6.1 | 9.99995 | 278 | 172 | 0.9 | 0.00039 | 188 |
| 84 | 6.2 | 9.99996 | 276 | 174 | 0.6 | 0.00039 | 186 |
| 86 | 6.2 | 9.99997 | 274 | 176 | 0.4 | 0.00039 | 184 |
| 88 | 6.2 | 9.99999 | 272 | 178 | 0.2 | 0.00039 | 182 |
| 90 | +6.2— | 0.00000 | 270 | 180 | +0.0— | 0.00039 | 180 |

## Bewegung der mittleren Länge *L*.

| Zeit | Mimas | Enceladus | Tethys | Dione | Rhea |
|---|---|---|---|---|---|
| d | ° ′ | ° ′ | ° ′ | ° ′ | ° ′ |
| 1 | 22 0.0 | 262 44.0 | 190 41.9 | 131 32.1 | 79 41.4 |
| h | | | | | |
| 1 | 15 55.0 | 10 56.8 | 7 56.7 | 5 28.8 | 3 19.2 |
| 2 | 31 50.0 | 21 53.7 | 15 53.5 | 10 57.7 | 6 38.4 |
| 3 | 47 45.0 | 32 50.5 | 23 50.2 | 16 26.5 | 9 57.7 |
| 4 | 63 40.0 | 43 47.3 | 31 47.0 | 21 55.3 | 13 16.9 |
| 5 | 79 35.0 | 54 44.2 | 39 43.7 | 27 24.2 | 16 36.1 |
| 6 | 95 30.0 | 65 41.0 | 47 40.5 | 32 53.0 | 19 55.3 |
| 7 | 111 25.0 | 76 37.8 | 55 37.2 | 38 21.9 | 23 14.6 |
| 8 | 127 20.0 | 87 34.7 | 63 34.0 | 43 50.7 | 26 33.8 |
| 9 | 143 15.0 | 98 31.5 | 71 30.7 | 49 19.5 | 29 53.0 |
| 10 | 159 10.0 | 109 28.3 | 79 27.5 | 54 48.4 | 33 12.2 |
| 11 | 175 5.0 | 120 25.2 | 87 24.2 | 60 17.2 | 36 31.5 |
| 12 | 191 0.0 | 131 22.0 | 95 20.9 | 65 46.0 | 39 50.7 |
| 13 | 206 55.0 | 142 18.8 | 103 17.7 | 71 14.9 | 43 9.9 |
| 14 | 222 50.0 | 153 15.7 | 111 14.4 | 76 43.7 | 46 29.1 |
| 15 | 238 45.0 | 164 12.5 | 119 11.2 | 82 12.6 | 49 48.4 |
| 16 | 254 40.0 | 175 9.3 | 127 7.9 | 87 41.4 | 53 7.6 |
| 17 | 270 35.0 | 186 6.2 | 135 4.7 | 93 10.2 | 56 26.8 |
| 18 | 286 30.0 | 197 3.0 | 143 1.4 | 98 39.1 | 59 46.0 |
| 19 | 302 25.0 | 207 59.8 | 150 58.2 | 104 7.9 | 63 5.3 |
| 20 | 318 20.0 | 218 56.7 | 158 54.9 | 109 36.7 | 66 24.5 |
| 21 | 334 15.0 | 229 53.5 | 166 51.7 | 115 5.6 | 69 43.7 |
| 22 | 350 10.0 | 240 50.3 | 174 48.4 | 120 34.4 | 73 2.9 |
| 23 | 6 5.0 | 251 47.2 | 182 45.2 | 126 3.3 | 76 22.2 |
| m | | | | | |
| 1 | 0 15.9 | 0 10.9 | 0 7.9 | 0 5.5 | 0 3.3 |
| 2 | 0 31.8 | 0 21.9 | 0 15.9 | 0 11.0 | 0 6.6 |
| 3 | 0 47.8 | 0 32.8 | 0 23.8 | 0 16.4 | 0 10.0 |
| 4 | 1 3.7 | 0 43.8 | 0 31.8 | 0 21.9 | 0 13.3 |
| 5 | 1 19.6 | 0 54.7 | 0 39.7 | 0 27.4 | 0 16.6 |
| 6 | 1 35.5 | 1 5.7 | 0 47.6 | 0 32.9 | 0 19.9 |
| 7 | 1 51.4 | 1 16.6 | 0 55.6 | 0 38.4 | 0 23.2 |
| 8 | 2 7.4 | 1 27.6 | 1 3.5 | 0 43.8 | 0 26.6 |
| 9 | 2 23.3 | 1 38.5 | 1 11.5 | 0 49.3 | 0 29.9 |
| 10 | 2 39.2 | 1 49.5 | 1 19.4 | 0 54.8 | 0 33.2 |
| 20 | 5 18.3 | 3 38.9 | 2 38.9 | 1 49.6 | 1 6.4 |
| 30 | 7 57.5 | 5 28.4 | 3 58.3 | 2 44.4 | 1 39.6 |
| 40 | 10 36.7 | 7 17.9 | 5 17.8 | 3 39.2 | 2 12.8 |
| 50 | 13 15.8 | 9 7.3 | 6 37.2 | 4 34.0 | 2 46.0 |
| s | | | | | |
| 10 | 0 2.6 | 0 1.8 | 0 1.3 | 0 0.9 | 0 0.5 |
| 20 | 0 5.3 | 0 3.6 | 0 2.6 | 0 1.8 | 0 1.1 |
| 30 | 0 7.9 | 0 5.4 | 0 3.9 | 0 2.7 | 0 1.6 |
| 40 | 0 10.6 | 0 7.3 | 0 5.3 | 0 3.7 | 0 2.2 |
| 50 | 0 13.2 | 0 9.1 | 0 6.6 | 0 4.6 | 0 2.7 |

| Bewegung der mittleren Anomalie *M*. | | | | | log $\frac{1}{1+\zeta}$, in Einheiten der 5. Dezimale. | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Zeit | Mimas | Encel. | Dione | Rhea | $u-U$ | Mimas | Encel. | Tethys | Dione | Rhea | $u-U$ |
| 1d | 21.00° | 262.4° | 131.5° | 79.7° | 0° | −5 | −7 | −9 | −12 | −16 | 360° |
| | | | | | 4 | −5 | −7 | −9 | −12 | −16 | 356 |
| 1h | 15.87 | 10.9 | 5.5 | 3.3 | 8 | −5 | −7 | −9 | −12 | −16 | 352 |
| 2 | 31.75 | 21.9 | 11.0 | 6.6 | 12 | −5 | −6 | −8 | −11 | −15 | 348 |
| 3 | 47.62 | 32.8 | 16.4 | 10.0 | 16 | −5 | −6 | −8 | −11 | −15 | 344 |
| 4 | 63.50 | 43.7 | 21.9 | 13.3 | 20 | −5 | −6 | −8 | −11 | −15 | 340 |
| 5 | 79.37 | 54.7 | 27.4 | 16.6 | 24 | −5 | −6 | −8 | −10 | −14 | 336 |
| 6 | 95.25 | 65.6 | 32.9 | 19.9 | 28 | −5 | −6 | −8 | −10 | −14 | 332 |
| 7 | 111.12 | 76.5 | 38.4 | 23.2 | 32 | −4 | −5 | −7 | − 9 | −13 | 328 |
| 8 | 127.00 | 87.5 | 43.8 | 26.6 | 36 | −4 | −5 | −7 | − 9 | −13 | 324 |
| 9 | 142.87 | 98.4 | 49.3 | 29.9 | 40 | −4 | −5 | −7 | − 8 | −12 | 320 |
| 10 | 158.75 | 109.3 | 54.8 | 33.2 | 44 | −4 | −5 | −6 | − 7 | −11 | 316 |
| 11 | 174.62 | 120.3 | 60.3 | 36.5 | 48 | −4 | −4 | −6 | − 7 | −10 | 312 |
| 12 | 190.50 | 131.2 | 65.7 | 39.8 | 52 | −3 | −4 | −5 | − 6 | −10 | 308 |
| 13 | 206.37 | 142.1 | 71.2 | 43.2 | 56 | −3 | −3 | −5 | − 6 | − 9 | 304 |
| 14 | 222.25 | 153.1 | 76.7 | 46.5 | 60 | −3 | −3 | −4 | − 5 | − 8 | 300 |
| 15 | 238.12 | 164.0 | 82.2 | 49.8 | 64 | −3 | −3 | −4 | − 4 | − 7 | 296 |
| 16 | 254.00 | 174.9 | 87.7 | 53.1 | 68 | −2 | −2 | −3 | − 4 | − 6 | 292 |
| 17 | 269.87 | 185.9 | 93.1 | 56.5 | 72 | −2 | −2 | −3 | − 3 | − 5 | 288 |
| 18 | 285.75 | 196.8 | 98.6 | 59.8 | 76 | −1 | −1 | −2 | − 3 | − 4 | 284 |
| 19 | 301.62 | 207.7 | 104.1 | 63.1 | 80 | −1 | −1 | −2 | − 2 | − 3 | 280 |
| 20 | 317.50 | 218.7 | 109.6 | 66.4 | 84 | −1 | −1 | −1 | − 1 | − 2 | 276 |
| 21 | 333.37 | 229.6 | 115.1 | 69.7 | 88 | 0 | 0 | 0 | 0 | − 1 | 272 |
| 22 | 349.25 | 240.5 | 120.5 | 73.1 | 92 | 0 | 0 | 0 | 0 | + 1 | 268 |
| 23 | 5.12 | 251.5 | 126.0 | 76.4 | 96 | +1 | +1 | +1 | + 1 | + 2 | 264 |
| | | | | | 100 | +1 | +1 | +2 | + 2 | + 3 | 260 |
| 1m | 0.26 | 0.2 | 0.1 | 0.0 | 104 | +1 | +1 | +2 | + 3 | + 4 | 256 |
| 2 | 0.53 | 0.4 | 0.2 | 0.1 | 108 | +2 | +2 | +3 | + 3 | + 5 | 252 |
| 3 | 0.79 | 0.5 | 0.3 | 0.1 | 112 | +2 | +2 | +3 | + 4 | + 6 | 248 |
| 4 | 1.06 | 0.7 | 0.4 | 0.2 | 116 | +3 | +3 | +4 | + 4 | + 7 | 244 |
| 5 | 1.32 | 0.9 | 0.4 | 0.2 | 120 | +3 | +3 | +4 | + 5 | + 8 | 240 |
| 6 | 1.58 | 1.1 | 0.5 | 0.3 | 124 | +3 | +3 | +5 | + 6 | + 9 | 236 |
| 7 | 1.85 | 1.3 | 0.6 | 0.3 | 128 | +3 | +4 | +5 | + 6 | +10 | 232 |
| 8 | 2.11 | 1.4 | 0.7 | 0.4 | 132 | +4 | +4 | +6 | + 7 | +10 | 228 |
| 9 | 2.38 | 1.6 | 0.8 | 0.4 | 136 | +4 | +5 | +6 | + 7 | +11 | 224 |
| 10 | 2.64 | 1.8 | 0.9 | 0.5 | 140 | +4 | +5 | +7 | + 8 | +12 | 220 |
| 20 | 5.29 | 3.6 | 1.8 | 1.1 | 144 | +4 | +5 | +7 | + 9 | +13 | 216 |
| 30 | 7.93 | 5.4 | 2.7 | 1.6 | 148 | +4 | +5 | +7 | + 9 | +13 | 212 |
| 40 | 10.58 | 7.3 | 3.7 | 2.2 | 152 | +5 | +6 | +8 | +10 | +14 | 208 |
| 50 | 13.22 | 9.1 | 4.6 | 2.7 | 156 | +5 | +6 | +8 | +10 | +14 | 204 |
| | | | | | 160 | +5 | +6 | +8 | +11 | +15 | 200 |
| 10s | 0.04 | 0.0 | 0.0 | 0.0 | 164 | +5 | +6 | +8 | +11 | +15 | 196 |
| 20 | 0.09 | 0.1 | 0.0 | 0.0 | 168 | +5 | +6 | +8 | +11 | +15 | 192 |
| 30 | 0.13 | 0.1 | 0.0 | 0.0 | 172 | +5 | +7 | +9 | +12 | +16 | 188 |
| 40 | 0.17 | 0.1 | 0.1 | 0.0 | 176 | +5 | +7 | +9 | +12 | +16 | 184 |
| 50 | 0.22 | 0.2 | 0.1 | 0.0 | 180 | +5 | +7 | +9 | +12 | +16 | 180 |

## TITAN.

| $0^h$ | *U* | *B* | *P* |
|---|---|---|---|
| | ° ′ | ° ′ | ° ′ |
| Jan. 1 | 263 1.8 | −15 27.0 | +0 47.8 |
| 3 | 263 1.7 | 15 27.5 | 0 47.8 |
| 5 | 263 2.0 | 15 28.3 | 0 47.8 |
| 7 | 263 2.7 | 15 29.2 | 0 47.7 |
| 9 | 263 3.8 | 15 30.3 | 0 47.6 |
| 11 | 263 5.4 | −15 31.5 | +0 47.4 |
| 13 | 263 7.4 | 15 32.9 | 0 47.2 |
| 15 | 263 9.8 | 15 34.4 | 0 46.9 |
| 17 | 263 12.6 | 15 36.1 | 0 46.6 |
| 19 | 263 15.9 | 15 38.0 | 0 46.3 |
| 21 | 263 19.6 | −15 40.0 | +0 45.9 |
| 23 | 263 23.7 | 15 42.2 | 0 45.4 |
| 25 | 263 28.2 | 15 44.5 | 0 44.9 |
| 27 | 263 33.2 | 15 46.9 | 0 44.3 |
| 29 | 263 38.6 | 15 49.5 | 0 43.7 |
| 31 | 263 44.3 | −15 52.2 | +0 43.0 |
| Febr. 2 | 263 50.4 | 15 55.1 | 0 42.3 |
| 4 | 263 57.0 | 15 58.1 | 0 41.6 |
| 6 | 264 3.9 | 16 1.2 | 0 40.8 |
| 8 | 264 11.2 | 16 4.4 | 0 40.0 |
| 10 | 264 18.8 | −16 7.7 | +0 39.1 |
| 12 | 264 26.8 | 16 11.1 | 0 38.2 |
| 14 | 264 35.1 | 16 14.7 | 0 37.3 |
| 16 | 264 43.8 | 16 18.4 | 0 36.3 |
| 18 | 264 52.8 | 16 22.2 | 0 35.3 |
| 20 | 265 2.1 | −16 26.1 | +0 34.2 |
| 22 | 265 11.7 | 16 30.1 | 0 33.1 |
| 24 | 265 21.7 | 16 34.1 | 0 32.0 |
| 26 | 265 32.0 | 16 38.2 | 0 30.8 |
| 28 | 265 42.6 | 16 42.5 | 0 29.6 |
| März 2 | 265 53.5 | −16 46.8 | +0 28.4 |
| 4 | 266 4.7 | 16 51.2 | 0 27.1 |
| 6 | 266 16.1 | 16 55.6 | 0 25.8 |
| 8 | 266 27.8 | 17 0.1 | 0 24.4 |
| | | | |
| Sept. 16 | 283 29.2 | −21 42.9 | −1 34.1 |
| 18 | 283 26.1 | 21 41.7 | 1 33.8 |
| 20 | 283 22.5 | 21 40.5 | 1 33.4 |
| 22 | 283 18.5 | 21 39.2 | 1 32.9 |
| 24 | 283 14.1 | 21 37.8 | 1 32.4 |
| 26 | 283 9.3 | −21 36.3 | −1 31.8 |
| 28 | 283 4.1 | 21 34.8 | 1 31.2 |
| 30 | 282 58.5 | 21 33.2 | 1 30.5 |
| Okt. 2 | 282 52.5 | 21 31.4 | 1 29.8 |
| 4 | 282 46.2 | 21 29.6 | 1 29.1 |

| $0^h$ | *U* | *B* | *P* |
|---|---|---|---|
| | ° ′ | ° ′ | ° ′ |
| Okt. 4 | 282 46.2 | −21 29.6 | −1 29.1 |
| 6 | 282 39.5 | 21 27.7 | 1 28.3 |
| 8 | 282 32.5 | 21 25.7 | 1 27.5 |
| 10 | 282 25.1 | 21 23.7 | 1 26.6 |
| 12 | 282 17.4 | 21 21.6 | 1 25.7 |
| 14 | 282 9.5 | −21 19.5 | −1 24.8 |
| 16 | 282 1.3 | 21 17.4 | 1 23.9 |
| 18 | 281 52.7 | 21 15.2 | 1 22.9 |
| 20 | 281 43.9 | 21 12.9 | 1 21.9 |
| 22 | 281 34.9 | 21 10.6 | 1 20.8 |
| 24 | 281 25.7 | −21 8.2 | −1 19.7 |
| 26 | 281 16.3 | 21 5.8 | 1 18.6 |
| 28 | 281 6.7 | 21 3.4 | 1 17.5 |
| 30 | 280 57.0 | 21 1.0 | 1 16.4 |
| Nov. 1 | 280 47.2 | 20 58.6 | 1 15.3 |
| 3 | 280 37.3 | −20 56.1 | −1 14.1 |
| 5 | 280 27.3 | 20 53.6 | 1 13.0 |
| 7 | 280 17.3 | 20 51.1 | 1 11.8 |
| 9 | 280 7.2 | 20 48.6 | 1 10.6 |
| 11 | 279 57.1 | 20 46.2 | 1 9.4 |
| 13 | 279 47.0 | −20 43.7 | −1 8.2 |
| 15 | 279 37.0 | 20 41.3 | 1 7.1 |
| 17 | 279 27.0 | 20 38.9 | 1 5.9 |
| 19 | 279 17.1 | 20 36.5 | 1 4.8 |
| 21 | 279 7.3 | 20 34.1 | 1 3.6 |
| 23 | 278 57.7 | −20 31.8 | −1 2.5 |
| 25 | 278 48.2 | 20 29.6 | 1 1.4 |
| 27 | 278 38.8 | 20 27.4 | 1 0.3 |
| 29 | 278 29.6 | 20 25.3 | 0 59.2 |
| Dez. 1 | 278 20.7 | 20 23.3 | 0 58.2 |
| 3 | 278 12.0 | −20 21.4 | −0 57.2 |
| 5 | 278 3.5 | 20 19.5 | 0 56.2 |
| 7 | 277 55.3 | 20 17.7 | 0 55.2 |
| 9 | 277 47.4 | 20 16.0 | 0 54.3 |
| 11 | 277 39.8 | 20 14.4 | 0 53.4 |
| 13 | 277 32.4 | −20 12.9 | −0 52.6 |
| 15 | 277 25.4 | 20 11.5 | 0 51.8 |
| 17 | 277 18.8 | 20 10.2 | 0 51.0 |
| 19 | 277 12.5 | 20 9.0 | 0 50.3 |
| 21 | 277 6.6 | 20 7.8 | 0 49.6 |
| 23 | 277 1.1 | −20 6.8 | −0 49.0 |
| 25 | 276 56.0 | 20 5.9 | 0 48.4 |
| 27 | 276 51.3 | 20 5.1 | 0 47.8 |
| 29 | 276 47.1 | 20 4.5 | 0 47.3 |
| 31 | 276 43.3 | 20 4.0 | 0 46.8 |

## TITAN.

| $0^h$ | $\alpha_{tr} - \alpha_{pl}$ (s) | Diff. (s) | $\delta_{tr} - \delta_{pl}$ (″) | Diff. (″) |
|---|---|---|---|---|
| Jan. 1 | −10.44 | −1.85 | +29.2 | −18.7 |
| 2 | −12.29 | +0.21 | +10.5 | −20.4 |
| 3 | −12.08 | +2.21 | − 9.9 | −18.7 |
| 4 | − 9.87 | +3.80 | −28.6 | −14.0 |
| 5 | − 6.07 | +4.74 | −42.6 | − 7.3 |
| 6 | − 1.33 | +4.93 | −49.9 | + 0.3 |
| 7 | + 3.60 | +4.39 | −49.6 | + 7.7 |
| 8 | + 7.99 | +3.22 | −41.9 | +13.7 |
| 9 | +11.21 | +1.63 | −28.2 | +17.6 |
| 10 | +12.84 | −0.18 | −10.6 | +19.1 |
| 11 | +12.66 | −1.97 | + 8.5 | +17.8 |
| 12 | +10.69 | −3.50 | +26.3 | +14.0 |
| 13 | + 7.19 | −4.56 | +40.3 | + 8.0 |
| 14 | + 2.63 | −4.94 | +48.3 | + 0.6 |
| 15 | − 2.31 | −4.55 | +48.9 | − 7.2 |
| 16 | − 6.86 | −3.42 | +41.7 | −13.9 |
| 17 | −10.28 | −1.70 | +27.8 | −18.5 |
| 18 | −11.98 | +0.30 | + 9.3 | −20.0 |
| 19 | −11.68 | +2.22 | −10.7 | −18.2 |
| 20 | − 9.46 | +3.74 | −28.9 | −13.5 |
| 21 | − 5.72 | +4.62 | −42.4 | − 6.8 |
| 22 | − 1.10 | +4.78 | −49.2 | + 0.6 |
| 23 | + 3.68 | +4.22 | −48.6 | + 7.8 |
| 24 | + 7.90 | +3.08 | −40.8 | +13.7 |
| 25 | +10.98 | +1.53 | −27.1 | +17.5 |
| 26 | +12.51 | −0.23 | − 9.6 | +18.8 |
| 27 | +12.28 | −1.97 | + 9.2 | +17.5 |
| 28 | +10.31 | −3.45 | +26.7 | +13.6 |
| 29 | + 6.86 | −4.46 | +40.3 | + 7.7 |
| 30 | + 2.40 | −4.79 | +48.0 | + 0.3 |
| 31 | − 2.39 | −4.40 | +48.3 | − 7.4 |
| Febr. 1 | − 6.79 | −3.28 | +40.9 | −14.0 |
| 2 | −10.07 | −1.60 | +26.9 | −18.5 |
| 3 | −11.67 | +0.34 | + 8.4 | −19.8 |
| 4 | −11.33 | +2.19 | −11.4 | −17.9 |
| 5 | − 9.14 | +3.66 | −29.3 | −13.2 |
| 6 | − 5.48 | +4.51 | −42.5 | − 6.6 |
| 7 | − 0.97 | +4.64 | −49.1 | + 0.9 |
| 8 | + 3.67 | +4.09 | −48.2 | + 8.0 |
| 9 | + 7.76 | +2.97 | −40.2 | +13.8 |
| 10 | +10.73 | +1.46 | −26.4 | +17.4 |
| 11 | +12.19 | −0.25 | − 9.0 | +18.8 |
| 12 | +11.94 | −1.94 | + 9.8 | +17.4 |
| 13 | +10.00 | −3.37 | +27.2 | +13.4 |
| 14 | + 6.63 | | +40.6 | |

| $0^h$ | $\alpha_{tr} - \alpha_{pl}$ (s) | Diff. (s) | $\delta_{tr} - \delta_{pl}$ (″) | Diff. (″) |
|---|---|---|---|---|
| Febr. 14 | + 6.63 | −4.34 | +40.6 | + 7.4 |
| 15 | + 2.29 | −4.68 | +48.0 | + 0.1 |
| 16 | − 2.39 | −4.28 | +48.1 | − 7.5 |
| 17 | − 6.67 | −3.18 | +40.6 | −14.2 |
| 18 | − 9.85 | −1.54 | +26.4 | −18.6 |
| 19 | −11.39 | +0.34 | + 7.8 | −19.8 |
| 20 | −11.05 | +2.15 | −12.0 | −17.8 |
| 21 | − 8.90 | +3.58 | −29.8 | −13.1 |
| 22 | − 5.32 | +4.39 | −42.9 | − 6.4 |
| 23 | − 0.93 | +4.53 | −49.3 | + 1.1 |
| 24 | + 3.60 | +3.99 | −48.2 | + 8.1 |
| 25 | + 7.59 | +2.90 | −40.1 | +13.9 |
| 26 | +10.49 | +1.43 | −26.2 | +17.6 |
| 27 | +11.92 | −0.24 | − 8.6 | +18.9 |
| 28 | +11.68 | −1.90 | +10.3 | +17.4 |
| März 1 | + 9.78 | −3.29 | +27.7 | +13.4 |
| 2 | + 6.49 | −4.24 | +41.1 | + 7.4 |
| 3 | + 2.25 | −4.58 | +48.5 | − 0.1 |
| 4 | − 2.33 | −4.19 | +48.4 | − 7.8 |
| 5 | − 6.52 | −3.12 | +40.6 | −14.4 |
| 6 | − 9.64 | −1.52 | +26.2 | −18.7 |
| 7 | −11.16 | +0.32 | + 7.5 | −20.0 |
| 8 | −10.84 | | −12.5 | |
| Sept. 16 | −12.80 | +2.32 | −23.2 | −25.3 |
| 17 | −10.48 | +4.00 | −48.5 | −17.6 |
| 18 | − 6.48 | +5.02 | −66.1 | − 7.6 |
| 19 | − 1.46 | +5.25 | −73.7 | + 3.4 |
| 20 | + 3.79 | +4.72 | −70.3 | +13.7 |
| 21 | + 8.51 | +3.52 | −56.6 | +21.7 |
| 22 | +12.03 | +1.84 | −34.9 | +26.7 |
| 23 | +13.87 | −0.14 | − 8.2 | +28.0 |
| 24 | +13.73 | −2.13 | +19.8 | +25.1 |
| 25 | +11.60 | −3.85 | +44.9 | +18.5 |
| 26 | + 7.75 | −5.06 | +63.4 | + 8.9 |
| 27 | + 2.69 | −5.49 | +72.3 | − 2.6 |
| 28 | − 2.80 | −5.04 | +69.7 | −14.0 |
| 29 | − 7.84 | −3.75 | +55.7 | −23.2 |
| 30 | −11.59 | −1.81 | +32.5 | −28.7 |
| Okt. 1 | −13.40 | +0.42 | + 3.8 | −29.3 |
| 2 | −12.98 | +2.54 | −25.5 | −25.3 |
| 3 | −10.44 | +4.22 | −50.8 | −17.2 |
| 4 | − 6.22 | | −68.0 | |

## TITAN.

| $0^h$ | $\alpha_{tr} - \alpha_{pl}$ | | $\delta_{tr} - \delta_{pl}$ | |
|---|---|---|---|---|
| Okt. 4 | −6.22 s | +5.18 s | −68.0″ | −6.8″ |
| 5 | −1.04 | +5.35 | −74.8 | +4.4 |
| 6 | +4.31 | +4.74 | −70.4 | +14.6 |
| 7 | +9.05 | +3.47 | −55.8 | +22.5 |
| 8 | +12.52 | +1.70 | −33.3 | +27.3 |
| 9 | +14.22 | −0.33 | −6.0 | +28.2 |
| 10 | +13.89 | −2.35 | +22.2 | +25.0 |
| 11 | +11.54 | −4.07 | +47.2 | +18.0 |
| 12 | +7.47 | −5.23 | +65.2 | +7.9 |
| 13 | +2.24 | −5.59 | +73.1 | −3.7 |
| 14 | −3.35 | −5.04 | +69.4 | −15.0 |
| 15 | −8.39 | −3.65 | +54.4 | −24.0 |
| 16 | −12.04 | −1.63 | +30.4 | −29.1 |
| 17 | −13.67 | +0.65 | +1.3 | −29.4 |
| 18 | −13.02 | +2.78 | −28.1 | −24.8 |
| 19 | −10.24 | +4.41 | −52.9 | −16.4 |
| 20 | −5.83 | +5.32 | −69.3 | −5.7 |
| 21 | −0.51 | +5.41 | −75.0 | +5.4 |
| 22 | +4.90 | +4.71 | −69.6 | +15.5 |
| 23 | +9.61 | +3.34 | −54.1 | +23.2 |
| 24 | +12.95 | +1.51 | −30.9 | +27.6 |
| 25 | +14.46 | −0.56 | −3.3 | +28.0 |
| 26 | +13.90 | −2.58 | +24.7 | +24.5 |
| 27 | +11.32 | −4.27 | +49.2 | +17.1 |
| 28 | +7.05 | −5.37 | +66.3 | +6.8 |
| 29 | +1.68 | −5.63 | +73.1 | −4.8 |
| 30 | −3.95 | −4.98 | +68.3 | −15.9 |
| 31 | −8.93 | −3.49 | +52.4 | −24.6 |
| Nov. 1 | −12.42 | −1.40 | +27.8 | −29.3 |
| 2 | −13.82 | +0.91 | −1.5 | −29.0 |
| 3 | −12.91 | +3.01 | −30.5 | −23.9 |
| 4 | −9.90 | +4.59 | −54.4 | −15.3 |
| 5 | −5.31 | +5.41 | −69.7 | −4.6 |
| 6 | +0.10 | +5.40 | −74.3 | +6.4 |
| 7 | +5.50 | +4.60 | −67.9 | +16.3 |
| 8 | +10.10 | +3.17 | −51.6 | +23.6 |
| 9 | +13.27 | +1.28 | −28.0 | +27.5 |
| 10 | +14.55 | −0.80 | −0.5 | +27.6 |
| 11 | +13.75 | −2.80 | +27.1 | +23.5 |
| 12 | +10.95 | −4.44 | +50.6 | +16.0 |
| 13 | +6.51 | −5.44 | +66.6 | +5.7 |
| 14 | +1.07 | −5.61 | +72.3 | −5.9 |
| 15 | −4.54 | −4.85 | +66.4 | −16.7 |
| 16 | −9.39 | −3.27 | +49.7 | −25.0 |
| 17 | −12.66 | | +24.7 | |

| $0^h$ | $\alpha_{tr} - \alpha_{pl}$ | | $\delta_{tr} - \delta_{pl}$ | |
|---|---|---|---|---|
| Nov. 17 | −12.66 s | −1.14 s | +24.7″ | −29.0″ |
| 18 | −13.80 | +1.16 | −4.3 | −28.2 |
| 19 | −12.64 | +3.22 | −32.5 | −22.8 |
| 20 | −9.42 | +4.71 | −55.3 | −14.1 |
| 21 | −4.71 | +5.43 | −69.4 | −3.5 |
| 22 | +0.72 | +5.32 | −72.9 | +7.4 |
| 23 | +6.04 | +4.44 | −65.5 | +16.8 |
| 24 | +10.48 | +2.95 | −48.7 | +23.7 |
| 25 | +13.43 | +1.04 | −25.0 | +27.2 |
| 26 | +14.47 | −1.03 | +2.2 | +26.8 |
| 27 | +13.44 | −2.99 | +29.0 | +22.5 |
| 28 | +10.45 | −4.55 | +51.5 | +14.7 |
| 29 | +5.90 | −5.45 | +66.2 | +4.5 |
| 30 | +0.45 | −5.51 | +70.7 | −6.8 |
| Dez. 1 | −5.06 | −4.66 | +63.9 | −17.3 |
| 2 | −9.72 | −3.03 | +46.6 | −24.9 |
| 3 | −12.75 | −0.88 | +21.7 | −28.5 |
| 4 | −13.63 | +1.38 | −6.8 | −27.2 |
| 5 | −12.25 | +3.37 | −34.0 | −21.6 |
| 6 | −8.88 | +4.77 | −55.6 | −12.8 |
| 7 | −4.11 | +5.39 | −68.4 | −2.4 |
| 8 | +1.28 | +5.19 | −70.8 | +8.1 |
| 9 | +6.47 | +4.25 | −62.7 | +17.1 |
| 10 | +10.72 | +2.72 | −45.6 | +23.6 |
| 11 | +13.44 | +0.81 | −22.0 | +26.6 |
| 12 | +14.25 | −1.23 | +4.6 | +25.8 |
| 13 | +13.02 | −3.12 | +30.4 | +21.3 |
| 14 | +9.90 | −4.59 | +51.7 | +13.6 |
| 15 | +5.31 | −5.40 | +65.3 | +3.4 |
| 16 | −0.09 | −5.37 | +68.7 | −7.6 |
| 17 | −5.46 | −4.45 | +61.1 | −17.5 |
| 18 | −9.91 | −2.78 | +43.6 | −24.7 |
| 19 | −12.69 | −0.65 | +18.9 | −27.8 |
| 20 | −13.34 | +1.56 | −8.9 | −26.2 |
| 21 | −11.78 | +3.47 | −35.1 | −20.4 |
| 22 | −8.31 | +4.76 | −55.5 | −11.6 |
| 23 | −3.55 | +5.29 | −67.1 | −1.4 |
| 24 | +1.74 | +5.03 | −68.5 | +8.7 |
| 25 | +6.77 | +4.04 | −59.8 | +17.2 |
| 26 | +10.81 | +2.49 | −42.6 | +23.2 |
| 27 | +13.30 | +0.61 | −19.4 | +25.9 |
| 28 | +13.91 | −1.37 | +6.5 | +24.9 |
| 29 | +12.54 | −3.20 | +31.4 | +20.2 |
| 30 | +9.34 | −4.58 | +51.6 | +12.5 |
| 31 | +4.76 | | +64.1 | |

## HYPERION.

| $0^h$ | U | B | P | $0^h$ | U | B | P |
|---|---|---|---|---|---|---|---|
| Jan. 1 | 258° 50.0′ | −14° 59.2′ | +1° 11.7′ | Okt. 4 | 278° 21.5′ | −21° 12.3′ | −0° 55.2′ |
| 3 | 258 49.8 | 14 59.8 | 1 11.7 | 6 | 278 14.8 | 21 10.4 | 0 54.4 |
| 5 | 258 50.0 | 15 0.6 | 1 11.7 | 8 | 278 7.8 | 21 8.4 | 0 53.6 |
| 7 | 258 50.6 | 15 1.5 | 1 11.6 | 10 | 278 0.4 | 21 6.3 | 0 52.8 |
| 9 | 258 51.7 | 15 2.6 | 1 11.5 | 12 | 277 52.7 | 21 4.2 | 0 52.0 |
| 11 | 258 53.2 | −15 3.8 | +1 11.4 | 14 | 277 44.8 | −21 2.0 | −0 51.1 |
| 13 | 258 55.1 | 15 5.2 | 1 11.2 | 16 | 277 36.6 | 20 59.7 | 0 50.2 |
| 15 | 258 57.5 | 15 6.7 | 1 11.0 | 18 | 277 28.0 | 20 57.4 | 0 49.3 |
| 17 | 259 0.3 | 15 8.4 | 1 10.7 | 20 | 277 19.2 | 20 55.1 | 0 48.3 |
| 19 | 259 3.5 | 15 10.3 | 1 10.3 | 22 | 277 10.2 | 20 52.7 | 0 47.3 |
| 21 | 259 7.1 | −15 12.3 | +1 10.0 | 24 | 277 1.0 | −20 50.3 | −0 46.3 |
| 23 | 259 11.1 | 15 14.5 | 1 9.6 | 26 | 276 51.6 | 20 47.9 | 0 45.2 |
| 25 | 259 15.6 | 15 16.8 | 1 9.2 | 28 | 276 42.1 | 20 45.4 | 0 44.2 |
| 27 | 259 20.4 | 15 19.3 | 1 8.7 | 30 | 276 32.4 | 20 42.9 | 0 43.1 |
| 29 | 259 25.6 | 15 22.0 | 1 8.1 | Nov. 1 | 276 22.6 | 20 40.3 | 0 42.1 |
| 31 | 259 31.3 | −15 24.8 | +1 7.5 | 3 | 276 12.6 | −20 37.7 | −0 41.0 |
| Febr. 2 | 259 37.4 | 15 27.7 | 1 6.8 | 5 | 276 2.6 | 20 35.1 | 0 39.9 |
| 4 | 259 43.9 | 15 30.8 | 1 6.1 | 7 | 275 52.6 | 20 32.6 | 0 38.8 |
| 6 | 259 50.8 | 15 33.9 | 1 5.4 | 9 | 275 42.5 | 20 30.1 | 0 37.6 |
| 8 | 259 58.0 | 15 37.2 | 1 4.6 | 11 | 275 32.4 | 20 27.6 | 0 36.5 |
| 10 | 260 5.5 | −15 40.6 | +1 3.8 | 13 | 275 22.3 | −20 25.1 | −0 35.4 |
| 12 | 260 13.4 | 15 44.1 | 1 3.0 | 15 | 275 12.3 | 20 22.6 | 0 34.3 |
| 14 | 260 21.6 | 15 47.7 | 1 2.2 | 17 | 275 2.3 | 20 20.1 | 0 33.2 |
| 16 | 260 30.2 | 15 51.5 | 1 1.3 | 19 | 274 52.3 | 20 17.6 | 0 32.1 |
| 18 | 260 39.1 | 15 55.4 | 1 0.3 | 21 | 274 42.5 | 20 15.2 | 0 31.0 |
| 20 | 260 48.3 | −15 59.3 | +0 59.3 | 23 | 274 32.8 | −20 12.8 | −0 30.0 |
| 22 | 260 57.8 | 16 3.3 | 0 58.3 | 25 | 274 23.3 | 20 10.4 | 0 28.9 |
| 24 | 261 7.7 | 16 7.5 | 0 57.2 | 27 | 274 13.9 | 20 8.1 | 0 27.9 |
| 26 | 261 17.9 | 16 11.8 | 0 56.2 | 29 | 274 4.7 | 20 5.9 | 0 26.9 |
| 28 | 261 28.4 | 16 16.2 | 0 55.1 | Dez. 1 | 273 55.8 | 20 3.8 | 0 25.9 |
| März 2 | 261 39.2 | −16 20.6 | +0 54.0 | 3 | 273 47.1 | −20 1.8 | −0 24.9 |
| 4 | 261 50.2 | 16 25.1 | 0 52.8 | 5 | 273 38.6 | 19 59.9 | 0 24.0 |
| 6 | 262 1.5 | 16 29.6 | 0 51.6 | 7 | 273 30.4 | 19 58.1 | 0 23.1 |
| 8 | 262 13.1 | 16 34.2 | 0 50.4 | 9 | 273 22.4 | 19 56.3 | 0 22.2 |
| | | | | 11 | 273 14.7 | 19 54.6 | 0 21.4 |
| Sept. 16 | 279 4.8 | −21 25.9 | −1 0.0 | 13 | 273 7.4 | −19 53.0 | −0 20.6 |
| 18 | 279 1.6 | 21 24.8 | 0 59.6 | 15 | 273 0.4 | 19 51.5 | 0 19.8 |
| 20 | 278 58.0 | 21 23.5 | 0 59.2 | 17 | 272 53.8 | 19 50.1 | 0 19.1 |
| 22 | 278 54.0 | 21 22.1 | 0 58.8 | 19 | 272 47.5 | 19 48.8 | 0 18.4 |
| 24 | 278 49.6 | 21 20.7 | 0 58.3 | 21 | 272 41.6 | 19 47.7 | 0 17.7 |
| 26 | 278 44.8 | −21 19.2 | −0 57.8 | 23 | 272 36.1 | −19 46.7 | −0 17.1 |
| 28 | 278 39.5 | 21 17.6 | 0 57.2 | 25 | 272 31.0 | 19 45.8 | 0 16.5 |
| 30 | 278 33.9 | 21 15.9 | 0 56.6 | 27 | 272 26.3 | 19 45.0 | 0 16.0 |
| Okt. 2 | 278 27.9 | 21 14.1 | 0 55.9 | 29 | 272 21.9 | 19 44.3 | 0 15.6 |
| 4 | 278 21.5 | 21 12.3 | 0 55.2 | 31 | 272 18.0 | 19 43.8 | 0 15.2 |

## HYPERION.

| $0^h$ | $\alpha_{tr} - \alpha_{pl}$ | | $\delta_{tr} - \delta_{pl}$ | |
|---|---|---|---|---|
| Jan. 1 | +16.33 s | −0.26 s | −16.4″ | +16.7″ |
| 2 | +16.07 | −1.52 | +0.3 | +16.7 |
| 3 | +14.55 | −2.75 | +17.0 | +15.1 |
| 4 | +11.80 | −3.86 | +32.1 | +12.0 |
| 5 | +7.94 | −4.69 | +44.1 | +7.3 |
| 6 | +3.25 | −5.03 | +51.4 | +1.4 |
| 7 | −1.78 | −4.80 | +52.8 | −5.1 |
| 8 | −6.58 | −3.96 | +47.7 | −11.0 |
| 9 | −10.54 | −2.67 | +36.7 | −15.4 |
| 10 | −13.21 | −1.16 | +21.3 | −17.8 |
| 11 | −14.37 | +0.33 | +3.5 | −18.2 |
| 12 | −14.04 | +1.65 | −14.7 | −16.7 |
| 13 | −12.39 | +2.68 | −31.4 | −14.1 |
| 14 | −9.71 | +3.42 | −45.5 | −10.6 |
| 15 | −6.29 | +3.85 | −56.1 | −6.6 |
| 16 | −2.44 | +3.99 | −62.7 | −2.5 |
| 17 | +1.55 | +3.88 | −65.2 | +1.7 |
| 18 | +5.43 | +3.54 | −63.5 | +5.5 |
| 19 | +8.97 | +2.98 | −58.0 | +9.1 |
| 20 | +11.95 | +2.22 | −48.9 | +12.1 |
| 21 | +14.17 | +1.29 | −36.8 | +14.6 |
| 22 | +15.46 | +0.21 | −22.2 | +16.0 |
| 23 | +15.67 | −0.96 | −6.2 | +16.5 |
| 24 | +14.71 | −2.18 | +10.3 | +15.6 |
| 25 | +12.53 | −3.32 | +25.9 | +13.2 |
| 26 | +9.21 | −4.24 | +39.1 | +9.2 |
| 27 | +4.97 | −4.77 | +48.3 | +3.7 |
| 28 | +0.20 | −4.77 | +52.0 | −2.5 |
| 29 | −4.57 | −4.19 | +49.5 | −8.6 |
| 30 | −8.76 | −3.11 | +40.9 | −13.6 |
| 31 | −11.87 | −1.73 | +27.3 | −16.8 |
| Febr. 1 | −13.60 | −0.27 | +10.5 | −17.9 |
| 2 | −13.87 | +1.07 | −7.4 | −17.2 |
| 3 | −12.80 | +2.17 | −24.6 | −15.1 |
| 4 | −10.63 | +3.00 | −39.7 | −11.9 |
| 5 | −7.63 | +3.55 | −51.6 | −8.3 |
| 6 | −4.08 | +3.81 | −59.9 | −4.2 |
| 7 | −0.27 | +3.80 | −64.1 | −0.1 |
| 8 | +3.53 | +3.58 | −64.2 | +3.9 |
| 9 | +7.11 | +3.14 | −60.3 | +7.6 |
| 10 | +10.25 | +2.49 | −52.7 | +10.8 |
| 11 | +12.74 | +1.67 | −41.9 | +13.6 |
| 12 | +14.41 | +0.69 | −28.3 | +15.5 |
| 13 | +15.10 | −0.41 | −12.8 | +16.4 |
| 14 | +14.69 | | +3.6 | |

| $0^h$ | $\alpha_{tr} - \alpha_{pl}$ | | $\delta_{tr} - \delta_{pl}$ | |
|---|---|---|---|---|
| Febr. 14 | +14.69 s | −1.59 s | +3.6″ | +16.1″ |
| 15 | +13.10 | −2.74 | +19.7 | +14.4 |
| 16 | +10.36 | −3.75 | +34.1 | +11.0 |
| 17 | +6.61 | −4.45 | +45.1 | +6.1 |
| 18 | +2.16 | −4.68 | +51.2 | +0.1 |
| 19 | −2.52 | −4.36 | +51.3 | −6.2 |
| 20 | −6.88 | −3.50 | +45.1 | −11.8 |
| 21 | −10.38 | −2.27 | +33.3 | −15.7 |
| 22 | −12.65 | −0.88 | +17.6 | −17.7 |
| 23 | −13.53 | +0.46 | −0.1 | −17.7 |
| 24 | −13.07 | +1.63 | −17.8 | −16.2 |
| 25 | −11.44 | +2.55 | −34.0 | −13.4 |
| 26 | −8.89 | +3.20 | −47.4 | −9.9 |
| 27 | −5.69 | +3.58 | −57.3 | −6.0 |
| 28 | −2.11 | +3.71 | −63.3 | −1.9 |
| März 1 | +1.60 | +3.60 | −65.2 | +2.2 |
| 2 | +5.20 | +3.28 | −63.0 | +6.0 |
| 3 | +8.48 | +2.75 | −57.0 | +9.6 |
| 4 | +11.23 | +2.02 | −47.4 | +12.6 |
| 5 | +13.25 | +1.15 | −34.8 | +15.0 |
| 6 | +14.40 | +0.12 | −19.8 | +16.4 |
| 7 | +14.52 | −1.02 | −3.4 | +16.8 |
| 8 | +13.50 | | +13.4 | |
| Sept. 16 | +15.29 | −2.37 | +22.5 | +23.5 |
| 17 | +12.92 | −3.78 | +46.0 | +18.5 |
| 18 | +9.14 | −4.86 | +64.5 | +11.1 |
| 19 | +4.28 | −5.38 | +75.6 | +1.9 |
| 20 | −1.10 | −5.27 | +77.5 | −7.5 |
| 21 | −6.37 | −4.54 | +70.0 | −15.8 |
| 22 | −10.91 | −3.35 | +54.2 | −21.8 |
| 23 | −14.26 | −1.91 | +32.4 | −25.1 |
| 24 | −16.17 | −0.41 | +7.3 | −25.9 |
| 25 | −16.58 | +0.99 | −18.6 | −24.5 |
| 26 | −15.59 | +2.20 | −43.1 | −21.1 |
| 27 | −13.39 | +3.17 | −64.2 | −16.5 |
| 28 | −10.22 | +3.89 | −80.7 | −11.0 |
| 29 | −6.33 | +4.32 | −91.7 | −4.9 |
| 30 | −2.01 | +4.46 | −96.6 | +1.3 |
| Okt. 1 | +2.45 | +4.31 | −95.3 | +7.6 |
| 2 | +6.76 | +3.87 | −87.7 | +13.6 |
| 3 | +10.63 | +3.12 | −74.1 | +18.8 |
| 4 | +13.75 | | −55.3 | |

## HYPERION.

| $0^h$ | | $\alpha_{tr} - \alpha_{pl}$ | | $\delta_{tr} - \delta_{pl}$ | |
|---|---|---|---|---|---|
| Okt. | 4 | +13.75 s | +2.08 s | −55.3″ | +23.0″ |
| | 5 | +15.83 | +0.79 | −32.3 | +25.7 |
| | 6 | +16.62 | −0.70 | − 6.6 | +26.3 |
| | 7 | +15.92 | −2.27 | +19.7 | +24.3 |
| | 8 | +13.65 | −3.75 | +44.0 | +19.6 |
| | 9 | + 9.90 | −4.90 | +63.6 | +12.2 |
| | 10 | + 5.00 | −5.51 | +75.8 | + 3.1 |
| | 11 | − 0.51 | −5.46 | +78.9 | − 6.5 |
| | 12 | − 5.97 | −4.77 | +72.4 | −15.1 |
| | 13 | −10.74 | −3.57 | +57.3 | −21.6 |
| | 14 | −14.31 | −2.11 | +35.7 | −25.2 |
| | 15 | −16.42 | −0.57 | +10.5 | −26.3 |
| | 16 | −16.99 | +0.88 | −15.8 | −24.9 |
| | 17 | −16.11 | +2.15 | −40.7 | −21.7 |
| | 18 | −13.96 | +3.18 | −62.4 | −17.2 |
| | 19 | −10.78 | +3.93 | −79.6 | −11.7 |
| | 20 | − 6.85 | +4.40 | −91.3 | − 5.6 |
| | 21 | − 2.45 | +4.56 | −96.9 | + 0.7 |
| | 22 | + 2.11 | +4.43 | −96.2 | + 7.1 |
| | 23 | + 6.54 | +3.99 | −89.1 | +13.1 |
| | 24 | +10.53 | +3.25 | −76.0 | +18.5 |
| | 25 | +13.78 | +2.21 | −57.5 | +22.7 |
| | 26 | +15.99 | +0.91 | −34.8 | +25.5 |
| | 27 | +16.90 | −0.60 | − 9.3 | +26.4 |
| | 28 | +16.30 | −2.19 | +17.1 | +24.6 |
| | 29 | +14.11 | −3.70 | +41.7 | +20.1 |
| | 30 | +10.41 | −4.90 | +61.8 | +13.0 |
| | 31 | + 5.51 | −5.56 | +74.8 | + 4.0 |
| Nov. | 1 | − 0.05 | −5.55 | +78.8 | − 5.6 |
| | 2 | − 5.60 | −4.90 | +73.2 | −14.3 |
| | 3 | −10.50 | −3.72 | +58.9 | −21.0 |
| | 4 | −14.22 | −2.24 | +37.9 | −24.9 |
| | 5 | −16.46 | −0.68 | +13.0 | −26.0 |
| | 6 | −17.14 | +0.80 | −13.0 | −24.9 |
| | 7 | −16.34 | +2.11 | −37.9 | −21.9 |
| | 8 | −14.23 | +3.16 | −59.8 | −17.5 |
| | 9 | −11.07 | +3.93 | −77.3 | −12.0 |
| | 10 | − 7.14 | +4.41 | −89.3 | − 6.1 |
| | 11 | − 2.73 | +4.58 | −95.4 | + 0.3 |
| | 12 | + 1.85 | +4.46 | −95.1 | + 6.5 |
| | 13 | + 6.31 | +4.04 | −88.6 | +12.4 |
| | 14 | +10.35 | +3.30 | −76.2 | +17.8 |
| | 15 | +13.65 | +2.28 | −58.4 | +22.2 |
| | 16 | +15.93 | +0.99 | −36.2 | +24.8 |
| | 17 | +16.92 | | −11.4 | |

| $0^h$ | | $\alpha_{tr} - \alpha_{pl}$ | | $\delta_{tr} - \delta_{pl}$ | |
|---|---|---|---|---|---|
| Nov. | 17 | +16.92 s | −0.51 s | −11.4″ | +25.8″ |
| | 18 | +16.41 | −2.09 | +14.4 | +24.4 |
| | 19 | +14.32 | −3.60 | +38.8 | +20.2 |
| | 20 | +10.72 | −4.82 | +59.0 | +13.4 |
| | 21 | + 5.90 | −5.52 | +72.4 | + 4.7 |
| | 22 | + 0.38 | −5.56 | +77.1 | − 4.7 |
| | 23 | − 5.18 | −4.94 | +72.4 | −13.3 |
| | 24 | −10.12 | −3.78 | +59.1 | −19.9 |
| | 25 | −13.90 | −2.33 | +39.2 | −24.0 |
| | 26 | −16.23 | −0.77 | +15.2 | −25.4 |
| | 27 | −17.00 | +0.72 | −10.2 | −24.6 |
| | 28 | −16.28 | +2.01 | −34.8 | −21.6 |
| | 29 | −14.27 | +3.07 | −56.4 | −17.3 |
| | 30 | −11.20 | +3.86 | −73.7 | −12.2 |
| Dez. | 1 | − 7.34 | +4.34 | −85.9 | − 6.4 |
| | 2 | − 3.00 | +4.53 | −92.3 | − 0.3 |
| | 3 | + 1.53 | +4.42 | −92.6 | + 5.8 |
| | 4 | + 5.95 | +4.01 | −86.8 | +11.5 |
| | 5 | + 9.96 | +3.31 | −75.3 | +16.7 |
| | 6 | +13.27 | +2.31 | −58.6 | +21.0 |
| | 7 | +15.58 | +1.07 | −37.6 | +24.0 |
| | 8 | +16.65 | −0.38 | −13.6 | +25.0 |
| | 9 | +16.27 | −1.94 | +11.4 | +23.8 |
| | 10 | +14.33 | −3.43 | +35.2 | +20.0 |
| | 11 | +10.90 | −4.65 | +55.2 | +13.8 |
| | 12 | + 6.25 | −5.37 | +69.0 | + 5.5 |
| | 13 | + 0.88 | −5.46 | +74.5 | − 3.6 |
| | 14 | − 4.58 | −4.91 | +70.9 | −12.0 |
| | 15 | − 9.49 | −3.83 | +58.9 | −18.7 |
| | 16 | −13.32 | −2.41 | +40.2 | −22.8 |
| | 17 | −15.73 | −0.88 | +17.4 | −24.5 |
| | 18 | −16.61 | +0.58 | − 7.1 | −23.7 |
| | 19 | −16.03 | +1.86 | −30.8 | −21.2 |
| | 20 | −14.17 | +2.91 | −52.0 | −17.3 |
| | 21 | −11.26 | +3.70 | −69.3 | −12.3 |
| | 22 | − 7.56 | +4.19 | −81.6 | − 6.9 |
| | 23 | − 3.37 | +4.40 | −88.5 | − 1.0 |
| | 24 | + 1.03 | +4.32 | −89.5 | + 4.8 |
| | 25 | + 5.35 | +3.95 | −84.7 | +10.4 |
| | 26 | + 9.30 | +3.30 | −74.3 | +15.5 |
| | 27 | +12.60 | +2.36 | −58.8 | +19.7 |
| | 28 | +14.96 | +1.18 | −39.1 | +22.8 |
| | 29 | +16.14 | −0.21 | −16.3 | +24.0 |
| | 30 | +15.93 | −1.71 | + 7.7 | +23.1 |
| | 31 | +14.22 | | +30.8 | |

## JAPETUS.

| 0h | U | B | P | 0h | U | B | P |
|---|---|---|---|---|---|---|---|
| Jan. 1 | 339° 37′.4 | —14° 19′.4 | —13° 34′.1 | Okt. 4 | 359° 58′.2 | —15° 39′.3 | —14° 51′.6 |
| 3 | 339 37.4 | 14 20.0 | 13 34.2 | 6 | 359 51.5 | 15 39.0 | 14 51.5 |
| 5 | 339 37.9 | 14 20.7 | 13 34.3 | 8 | 359 44.4 | 15 38.6 | 14 51.4 |
| 7 | 339 38.8 | 14 21.4 | 13 34.4 | 10 | 359 37.0 | 15 38.3 | 14 51.2 |
| 9 | 339 40.2 | 14 22.2 | 13 34.6 | 12 | 359 29.3 | 15 37.9 | 14 51.1 |
| 11 | 339 42.1 | —14 23.0 | —13 34.8 | 14 | 359 21.3 | —15 37.6 | —14 50.9 |
| 13 | 339 44.4 | 14 23.9 | 13 35.1 | 16 | 359 13.0 | 15 37.3 | 14 50.7 |
| 15 | 339 47.2 | 14 24.8 | 13 35.4 | 18 | 359 4.5 | 15 37.0 | 14 50.5 |
| 17 | 339 50.4 | 14 25.8 | 13 35.7 | 20 | 358 55.7 | 15 36.7 | 14 50.3 |
| 19 | 339 54.0 | 14 26.8 | 13 36.1 | 22 | 358 46.7 | 15 36.4 | 14 50.0 |
| 21 | 339 58.1 | —14 27.8 | —13 36.5 | 24 | 358 37.5 | —15 36.1 | —14 49.8 |
| 23 | 340 2.6 | 14 28.9 | 13 37.0 | 26 | 358 28.0 | 15 35.8 | 14 49.5 |
| 25 | 340 7.6 | 14 30.0 | 13 37.5 | 28 | 358 18.4 | 15 35.5 | 14 49.3 |
| 27 | 340 13.0 | 14 31.2 | 13 38.1 | 30 | 358 8.7 | 15 35.3 | 14 49.0 |
| 29 | 340 18.9 | 14 32.4 | 13 38.7 | Nov. 1 | 357 58.9 | 15 35.0 | 14 48.8 |
| 31 | 340 25.2 | —14 33.7 | —13 39.4 | 3 | 357 49.0 | —15 34.8 | —14 48.5 |
| Febr. 2 | 340 31.9 | 14 35.0 | 13 40.1 | 5 | 357 39.0 | 15 34.6 | 14 48.3 |
| 4 | 340 38.9 | 14 36.4 | 13 40.8 | 7 | 357 28.9 | 15 34.4 | 14 48.0 |
| 6 | 340 46.3 | 14 37.7 | 13 41.6 | 9 | 357 18.8 | 15 34.2 | 14 47.7 |
| 8 | 340 54.2 | 14 39.1 | 13 42.4 | 11 | 357 8.7 | 15 34.1 | 14 47.4 |
| 10 | 341 2.4 | —14 40.5 | —13 43.2 | 13 | 356 58.6 | —15 33.9 | —14 47.1 |
| 12 | 341 11.0 | 14 42.0 | 13 44.1 | 15 | 356 48.5 | 15 33.8 | 14 46.8 |
| 14 | 341 20.0 | 14 43.5 | 13 45.0 | 17 | 356 38.5 | 15 33.6 | 14 46.5 |
| 16 | 341 29.3 | 14 45.1 | 13 45.9 | 19 | 356 28.6 | 15 33.5 | 14 46.1 |
| 18 | 341 38.9 | 14 46.6 | 13 46.9 | 21 | 356 18.8 | 15 33.4 | 14 45.8 |
| 20 | 341 48.9 | —14 48.2 | —13 47.9 | 23 | 356 9.1 | —15 33.4 | —14 45.4 |
| 22 | 341 59.2 | 14 49.7 | 13 48.9 | 25 | 355 59.6 | 15 33.4 | 14 45.1 |
| 24 | 342 9.8 | 14 51.3 | 13 50.0 | 27 | 355 50.2 | 15 33.3 | 14 44.8 |
| 26 | 342 20.8 | 14 52.9 | 13 51.0 | 29 | 355 41.0 | 15 33.3 | 14 44.5 |
| 28 | 342 32.0 | 14 54.5 | 13 52.1 | Dez. 1 | 355 32.1 | 15 33.3 | 14 44.2 |
| März 2 | 342 43.5 | —14 56.0 | —13 53.2 | 3 | 355 23.4 | —15 33.3 | —14 43.9 |
| 4 | 342 55.4 | 14 57.6 | 13 54.3 | 5 | 355 15.0 | 15 33.4 | 14 43.6 |
| 6 | 343 7.6 | 14 59.2 | 13 55.4 | 7 | 355 6.8 | 15 33.4 | 14 43.3 |
| 8 | 343 20.0 | 15 0.8 | 13 56.6 | 9 | 354 58.9 | 15 33.5 | 14 43.0 |
| | | | | 11 | 354 51.3 | 15 33.6 | 14 42.7 |
| Sept. 16 | 0 41.7 | —15 43.2 | —14 52.5 | 13 | 354 44.0 | —15 33.7 | —14 42.4 |
| 18 | 0 38.5 | 15 42.7 | 14 52.4 | 15 | 354 37.1 | 15 33.9 | 14 42.1 |
| 20 | 0 34.9 | 15 42.3 | 14 52.3 | 17 | 354 30.5 | 15 34.1 | 14 41.9 |
| 22 | 0 30.8 | 15 41.8 | 14 52.2 | 19 | 354 24.3 | 15 34.4 | 14 41.7 |
| 24 | 0 26.3 | 15 41.4 | 14 52.1 | 21 | 354 18.4 | 15 34.7 | 14 41.5 |
| 26 | 0 21.4 | —15 40.9 | —14 52.0 | 23 | 354 12.9 | —15 35.0 | —14 41.3 |
| 28 | 0 16.1 | 15 40.5 | 14 51.9 | 25 | 354 7.9 | 15 35.3 | 14 41.1 |
| 30 | 0 10.5 | 15 40.1 | 14 51.8 | 27 | 354 3.3 | 15 35.6 | 14 40.9 |
| Okt. 2 | 0 4.5 | 15 39.7 | 14 51.7 | 29 | 353 59.2 | 15 35.9 | 14 40.8 |
| 4 | 359 58.2 | 15 39.3 | 14 51.6 | 31 | 353 55.5 | 15 36.2 | 14 40.6 |

## JAPETUS.

| $0^h$ | $\alpha_{tr} - \alpha_{pl}$ | | $\delta_{tr} - \delta_{pl}$ | |
|---|---|---|---|---|
| Jan. 1 | −35.90 s | +0.39 s | −126.1″ | −10.0″ |
| 2 | −35.51 | +0.62 | −136.1 | −9.0 |
| 3 | −34.89 | +0.84 | −145.1 | −8.0 |
| 4 | −34.05 | +1.07 | −153.1 | −7.0 |
| 5 | −32.98 | +1.28 | −160.1 | −5.9 |
| 6 | −31.70 | +1.50 | −166.0 | −4.8 |
| 7 | −30.20 | +1.69 | −170.8 | −3.6 |
| 8 | −28.51 | +1.87 | −174.4 | −2.4 |
| 9 | −26.64 | +2.05 | −176.8 | −1.2 |
| 10 | −24.59 | +2.20 | −178.0 | −0.1 |
| 11 | −22.39 | +2.34 | −178.1 | +1.1 |
| 12 | −20.05 | +2.47 | −177.0 | +2.4 |
| 13 | −17.58 | +2.58 | −174.6 | +3.5 |
| 14 | −15.00 | +2.67 | −171.1 | +4.7 |
| 15 | −12.33 | +2.75 | −166.4 | +5.7 |
| 16 | −9.58 | +2.79 | −160.7 | +6.8 |
| 17 | −6.79 | +2.83 | −153.9 | +7.8 |
| 18 | −3.96 | +2.84 | −146.1 | +8.8 |
| 19 | −1.12 | +2.84 | −137.3 | +9.6 |
| 20 | +1.72 | +2.82 | −127.7 | +10.4 |
| 21 | +4.54 | +2.78 | −117.3 | +11.2 |
| 22 | +7.32 | +2.72 | −106.1 | +11.9 |
| 23 | +10.04 | +2.64 | −94.2 | +12.4 |
| 24 | +12.68 | +2.55 | −81.8 | +12.9 |
| 25 | +15.23 | +2.44 | −68.9 | +13.3 |
| 26 | +17.67 | +2.32 | −55.6 | +13.6 |
| 27 | +19.99 | +2.19 | −42.0 | +13.9 |
| 28 | +22.18 | +2.03 | −28.1 | +14.0 |
| 29 | +24.21 | +1.87 | −14.1 | +14.0 |
| 30 | +26.08 | +1.71 | −0.1 | +14.0 |
| 31 | +27.79 | +1.53 | +13.9 | +13.9 |
| Febr. 1 | +29.32 | +1.34 | +27.8 | +13.7 |
| 2 | +30.66 | +1.15 | +41.5 | +13.4 |
| 3 | +31.81 | +0.95 | +54.9 | +13.1 |
| 4 | +32.76 | +0.76 | +68.0 | +12.6 |
| 5 | +33.52 | +0.55 | +80.6 | +12.1 |
| 6 | +34.07 | +0.34 | +92.7 | +11.5 |
| 7 | +34.41 | +0.14 | +104.2 | +10.9 |
| 8 | +34.55 | −0.06 | +115.1 | +10.2 |
| 9 | +34.49 | −0.26 | +125.3 | +9.5 |
| 10 | +34.23 | −0.45 | +134.8 | +8.7 |
| 11 | +33.78 | −0.65 | +143.5 | +7.8 |
| 12 | +33.13 | −0.84 | +151.3 | +6.9 |
| 13 | +32.29 | −1.02 | +158.2 | +6.1 |
| 14 | +31.27 | | +164.3 | |

| $0^h$ | $\alpha_{tr} - \alpha_{pl}$ | | $\delta_{tr} - \delta_{pl}$ | |
|---|---|---|---|---|
| Febr. 14 | +31.27 s | −1.19 s | +164.3″ | +5.1″ |
| 15 | +30.08 | −1.36 | +169.4 | +4.1 |
| 16 | +28.72 | −1.51 | +173.5 | +3.2 |
| 17 | +27.21 | −1.66 | +176.7 | +2.2 |
| 18 | +25.55 | −1.80 | +178.9 | +1.2 |
| 19 | +23.75 | −1.93 | +180.1 | +0.2 |
| 20 | +21.82 | −2.04 | +180.3 | −0.8 |
| 21 | +19.78 | −2.15 | +179.5 | −1.8 |
| 22 | +17.63 | −2.24 | +177.7 | −2.7 |
| 23 | +15.39 | −2.31 | +175.0 | −3.7 |
| 24 | +13.08 | −2.38 | +171.3 | −4.6 |
| 25 | +10.70 | −2.44 | +166.7 | −5.6 |
| 26 | +8.26 | −2.47 | +161.1 | −6.5 |
| 27 | +5.79 | −2.50 | +154.6 | −7.3 |
| 28 | +3.29 | −2.51 | +147.3 | −8.1 |
| März 1 | +0.78 | −2.50 | +139.2 | −8.9 |
| 2 | −1.72 | −2.49 | +130.3 | −9.6 |
| 3 | −4.21 | −2.46 | +120.7 | −10.2 |
| 4 | −6.67 | −2.42 | +110.5 | −10.8 |
| 5 | −9.09 | −2.35 | +99.7 | −11.4 |
| 6 | −11.44 | −2.28 | +88.3 | −11.9 |
| 7 | −13.72 | −2.21 | +76.4 | −12.2 |
| 8 | −15.93 | | +64.2 | |
| | | | | |
| Sept. 16 | −8.00 | +3.05 | −180.4 | +8.2 |
| 17 | −4.95 | +3.09 | −172.2 | +9.3 |
| 18 | −1.86 | +3.12 | −162.9 | +10.4 |
| 19 | +1.26 | +3.12 | −152.5 | +11.6 |
| 20 | +4.38 | +3.09 | −140.9 | +12.5 |
| 21 | +7.47 | +3.06 | −128.4 | +13.4 |
| 22 | +10.53 | +3.00 | −115.0 | +14.2 |
| 23 | +13.53 | +2.92 | −100.8 | +14.9 |
| 24 | +16.45 | +2.82 | −85.9 | +15.6 |
| 25 | +19.27 | +2.71 | −70.3 | +16.0 |
| 26 | +21.98 | +2.58 | −54.3 | +16.4 |
| 27 | +24.56 | +2.42 | −37.9 | +16.8 |
| 28 | +26.98 | +2.26 | −21.1 | +17.0 |
| 29 | +29.24 | +2.07 | −4.1 | +17.0 |
| 30 | +31.31 | +1.88 | +12.9 | +17.0 |
| Okt. 1 | +33.19 | +1.69 | +29.9 | +16.9 |
| 2 | +34.88 | +1.47 | +46.8 | +16.6 |
| 3 | +36.35 | +1.25 | +63.4 | +16.3 |
| 4 | +37.60 | | +79.7 | |

## JAPETUS.

| $0^h$ | $\alpha_{tr} - \alpha_{pl}$ | | $\delta_{tr} - \delta_{pl}$ | | $0^h$ | $\alpha_{tr} - \alpha_{pl}$ | | $\delta_{tr} - \delta_{pl}$ | |
|---|---|---|---|---|---|---|---|---|---|
| Okt. 4 | +37.60s | +1.01s | + 79.7" | +15.8" | Nov. 17 | −39.27s | +0.16s | −135.4" | −13.1" |
| 5 | +38.61 | +0.78 | + 95.5 | +15.3 | 18 | −39.11 | +0.43 | −148.5 | −12.1 |
| 6 | +39.39 | +0.54 | +110.8 | +14.7 | 19 | −38.68 | +0.70 | −160.6 | −10.9 |
| 7 | +39.93 | +0.30 | +125.5 | +13.9 | 20 | −37.98 | +0.95 | −171.5 | − 9.7 |
| 8 | +40.23 | +0.05 | +139.4 | +13.1 | 21 | −37.03 | +1.22 | −181.2 | − 8.4 |
| 9 | +40.28 | −0.19 | +152.5 | +12.2 | 22 | −35.81 | +1.47 | −189.6 | − 7.0 |
| 10 | +40.09 | −0.44 | +164.7 | +11.2 | 23 | −34.34 | +1.71 | −196.6 | − 5.6 |
| 11 | +39.65 | −0.67 | +175.9 | +10.2 | 24 | −32.63 | +1.93 | −202.2 | − 4.3 |
| 12 | +38.98 | −0.91 | +186.1 | + 9.1 | 25 | −30.70 | +2.15 | −206.5 | − 2.8 |
| 13 | +38.07 | −1.15 | +195.2 | + 7.9 | 26 | −28.55 | +2.35 | −209.3 | − 1.2 |
| 14 | +36.92 | −1.37 | +203.1 | + 6.8 | 27 | −26.20 | +2.54 | −210.5 | + 0.2 |
| 15 | +35.55 | −1.59 | +209.9 | + 5.5 | 28 | −23.66 | +2.69 | −210.3 | + 1.7 |
| 16 | +33.96 | −1.80 | +215.4 | + 4.2 | 29 | −20.97 | +2.83 | −208.6 | + 3.2 |
| 17 | +32.16 | −1.99 | +219.6 | + 2.9 | 30 | −18.14 | +2.96 | −205.4 | + 4.6 |
| 18 | +30.17 | −2.18 | +222.5 | + 1.6 | Dez. 1 | −15.18 | +3.06 | −200.8 | + 6.0 |
| 19 | +27.99 | −2.35 | +224.1 | + 0.2 | 2 | −12.12 | +3.13 | −194.8 | + 7.4 |
| 20 | +25.64 | −2.51 | +224.3 | − 1.2 | 3 | − 8.99 | +3.19 | −187.4 | + 8.6 |
| 21 | +23.13 | −2.65 | +223.1 | − 2.4 | 4 | − 5.80 | +3.23 | −178.8 | + 9.9 |
| 22 | +20.48 | −2.78 | +220.7 | − 3.8 | 5 | − 2.57 | +3.24 | −168.9 | +11.0 |
| 23 | +17.70 | −2.88 | +216.9 | − 5.1 | 6 | + 0.67 | +3.22 | −157.9 | +12.1 |
| 24 | +14.82 | −2.98 | +211.8 | − 6.4 | 7 | + 3.89 | +3.19 | −145.8 | +13.1 |
| 25 | +11.84 | −3.07 | +205.4 | − 7.7 | 8 | + 7.08 | +3.13 | −132.7 | +13.9 |
| 26 | + 8.77 | −3.13 | +197.7 | − 8.9 | 9 | +10.21 | +3.06 | −118.8 | +14.7 |
| 27 | + 5.64 | −3.15 | +188.8 | −10.0 | 10 | +13.27 | +2.96 | −104.1 | +15.3 |
| 28 | + 2.49 | −3.17 | +178.8 | −11.2 | 11 | +16.23 | +2.84 | − 88.8 | +15.9 |
| 29 | − 0.68 | −3.17 | +167.6 | −12.2 | 12 | +19.07 | +2.72 | − 72.9 | +16.3 |
| 30 | − 3.85 | −3.15 | +155.4 | −13.2 | 13 | +21.79 | +2.57 | − 56.6 | +16.7 |
| 31 | − 7.00 | −3.11 | +142.2 | −14.0 | 14 | +24.36 | +2.39 | − 39.9 | +16.9 |
| Nov. 1 | −10.11 | −3.04 | +128.2 | −14.9 | 15 | +26.75 | +2.22 | − 23.0 | +17.0 |
| 2 | −13.15 | −2.97 | +113.3 | −15.6 | 16 | +28.97 | +2.03 | − 6.0 | +17.0 |
| 3 | −16.12 | −2.86 | + 97.7 | −16.2 | 17 | +31.00 | +1.82 | + 11.0 | +16.9 |
| 4 | −18.98 | −2.74 | + 81.5 | −16.8 | 18 | +32.82 | +1.61 | + 27.9 | +16.7 |
| 5 | −21.72 | −2.59 | + 64.7 | −17.2 | 19 | +34.43 | +1.38 | + 44.6 | +16.4 |
| 6 | −24.31 | −2.44 | + 47.5 | −17.4 | 20 | +35.81 | +1.16 | + 61.0 | +15.9 |
| 7 | −26.75 | −2.27 | + 30.1 | −17.6 | 21 | +36.97 | +0.92 | + 76.9 | +15.4 |
| 8 | −29.02 | −2.07 | + 12.5 | −17.7 | 22 | +37.89 | +0.69 | + 92.3 | +14.8 |
| 9 | −31.09 | −1.87 | − 5.2 | −17.7 | 23 | +38.58 | +0.45 | +107.1 | +14.1 |
| 10 | −32.96 | −1.64 | − 22.9 | −17.5 | 24 | +39.03 | +0.21 | +121.2 | +13.3 |
| 11 | −34.60 | −1.41 | − 40.4 | −17.2 | 25 | +39.24 | −0.03 | +134.5 | +12.4 |
| 12 | −36.01 | −1.18 | − 57.6 | −16.9 | 26 | +39.21 | −0.26 | +146.9 | +11.6 |
| 13 | −37.19 | −0.92 | − 74.5 | −16.3 | 27 | +38.95 | −0.50 | +158.5 | +10.6 |
| 14 | −38.11 | −0.65 | − 90.8 | −15.6 | 28 | +38.45 | −0.73 | +169.1 | + 9.5 |
| 15 | −38.76 | −0.39 | −106.4 | −14.9 | 29 | +37.72 | −0.95 | +178.6 | + 8.4 |
| 16 | −39.15 | −0.12 | −121.3 | −14.1 | 30 | +36.77 | −1.16 | +187.0 | + 7.4 |
| 17 | −39.27 | | −135.4 | | 31 | +35.61 | | +194.4 | |

## Elongationen.

### MIMAS.

| | | h | | | | h | | | | h | | | | h | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan. | 1 | 1.5 | W. | Jan. | 20 | 20.6 | W. | Febr. | 9 | 15.6 | W. | März | 1 | 10.7 | W. |
| | 1 | 12.9 | O. | | 21 | 7.9 | O. | | 10 | 2.9 | O. | | 1 | 22.0 | O. |
| | 2 | 0.2 | W. | | 21 | 19.2 | W. | | 10 | 14.3 | W. | | 2 | 9.3 | W. |
| | 2 | 11.5 | O. | | 22 | 6.6 | O. | | 11 | 1.6 | O. | | 2 | 20.7 | O. |
| | 2 | 22.8 | W. | | 22 | 17.9 | W. | | 11 | 12.9 | W. | | 3 | 8.0 | W. |
| | 3 | 10.1 | O. | | 23 | 5.2 | O. | | 12 | 0.2 | O. | | 3 | 19.3 | O. |
| | 3 | 21.4 | W. | | 23 | 16.5 | W. | | 12 | 11.5 | W. | | 4 | 6.6 | W. |
| | 4 | 8.7 | O. | | 24 | 3.8 | O. | | 12 | 22.8 | O. | | 4 | 17.9 | O. |
| | 4 | 20.0 | W. | | 24 | 15.1 | W. | | 13 | 10.1 | W. | | 5 | 5.2 | W. |
| | 5 | 7.3 | O. | | 25 | 2.4 | O. | | 13 | 21.4 | O. | | 5 | 16.5 | O. |
| | 5 | 18.7 | W. | | 25 | 13.7 | W. | | 14 | 8.7 | W. | | 6 | 3.8 | W. |
| | 6 | 6.0 | O. | | 26 | 1.0 | O. | | 14 | 20.1 | O. | | 6 | 15.2 | O. |
| | 6 | 17.3 | W. | | 26 | 12.3 | W. | | 15 | 7.4 | W. | | 7 | 2.5 | W. |
| | 7 | 4.6 | O. | | 26 | 23.6 | O. | | 15 | 18.7 | O. | | 7 | 13.8 | O. |
| | 7 | 15.9 | W. | | 27 | 10.9 | W. | | 16 | 6.0 | W. | | | | |
| | 8 | 3.2 | O. | | 27 | 22.3 | O. | | 16 | 17.3 | O. | Sept. | 16 | 8.1 | W. |
| | 8 | 14.5 | W. | | 28 | 9.6 | W. | | 17 | 4.6 | W. | | 16 | 19.4 | O. |
| | 9 | 1.8 | O. | | 28 | 20.9 | O. | | 17 | 15.9 | O. | | 17 | 6.7 | W. |
| | 9 | 13.2 | W. | | 29 | 8.2 | W. | | 18 | 3.2 | W. | | 17 | 18.0 | O. |
| | 10 | 0.5 | O. | | 29 | 19.5 | O. | | 18 | 14.6 | O. | | 18 | 5.3 | W. |
| | 10 | 11.8 | W. | | 30 | 6.8 | W. | | 19 | 1.9 | W. | | 18 | 16.6 | O. |
| | 10 | 23.1 | O. | | 30 | 18.1 | O. | | 19 | 13.2 | O. | | 19 | 3.9 | W. |
| | 11 | 10.4 | W. | | 31 | 5.4 | W. | | 20 | 0.5 | W. | | 19 | 15.2 | O. |
| | 11 | 21.7 | O. | | 31 | 16.7 | O. | | 20 | 11.8 | O. | | 20 | 2.5 | W. |
| | 12 | 9.0 | W. | Febr. | 1 | 4.0 | W. | | 20 | 23.1 | W. | | 20 | 13.8 | O. |
| | 12 | 20.3 | O. | | 1 | 15.3 | O. | | 21 | 10.4 | O. | | 21 | 1.2 | W. |
| | 13 | 7.6 | W. | | 2 | 2.7 | W. | | 21 | 21.7 | W. | | 21 | 12.5 | O. |
| | 13 | 19.0 | O. | | 2 | 14.0 | O. | | 22 | 9.0 | O. | | 21 | 23.8 | W. |
| | 14 | 6.3 | W. | | 3 | 1.3 | W. | | 22 | 20.4 | W. | | 22 | 11.1 | O. |
| | 14 | 17.6 | O. | | 3 | 12.6 | O. | | 23 | 7.7 | O. | | 22 | 22.4 | W. |
| | 15 | 4.9 | W. | | 3 | 23.9 | W. | | 23 | 19.0 | W. | | 23 | 9.7 | O. |
| | 15 | 16.2 | O. | | 4 | 11.2 | O. | | 24 | 6.3 | O. | | 23 | 21.0 | W. |
| | 16 | 3.5 | W. | | 4 | 22.5 | W. | | 24 | 17.6 | W. | | 24 | 8.3 | O. |
| | 16 | 14.8 | O. | | 5 | 9.8 | O. | | 25 | 4.9 | O. | | 24 | 19.6 | W. |
| | 17 | 2.1 | W. | | 5 | 21.1 | W. | | 25 | 16.2 | W. | | 25 | 6.9 | O. |
| | 17 | 13.5 | O. | | 6 | 8.4 | O. | | 26 | 3.5 | O. | | 25 | 18.2 | W. |
| | 18 | 0.8 | W. | | 6 | 19.8 | W. | | 26 | 14.9 | W. | | 26 | 5.5 | O. |
| | 18 | 12.1 | O. | | 7 | 7.1 | O. | | 27 | 2.2 | O. | | 26 | 16.8 | W. |
| | 18 | 23.4 | W. | | 7 | 18.4 | W. | | 27 | 13.5 | W. | | 27 | 4.1 | O. |
| | 19 | 10.7 | O. | | 8 | 5.7 | O. | | 28 | 0.8 | O. | | 27 | 15.4 | W. |
| | 19 | 22.0 | W. | | 8 | 17.0 | W. | | 28 | 12.1 | W. | | 28 | 2.7 | O. |
| | 20 | 9.3 | O. | | 9 | 4.3 | O. | | 28 | 23.4 | O. | | 28 | 14.0 | W. |

## Elongationen.

### MIMAS (Fortsetzung).

| | h | | | h | | | h | | | h | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sept. 29 | 1.4 | O. | Okt. 18 | 20.2 | O. | Nov. 7 | 15.0 | O. | Nov. 27 | 9.9 | O. |
| 29 | 12.7 | W. | 19 | 7.5 | W. | 8 | 2.4 | W. | 27 | 21.2 | W. |
| 30 | 0.0 | O. | 19 | 18.8 | O. | 8 | 13.7 | O. | 28 | 8.5 | O. |
| 30 | 11.3 | W. | 20 | 6.1 | W. | 9 | 1.0 | W. | 28 | 19.8 | W. |
| 30 | 22.6 | O. | 20 | 17.4 | O. | 9 | 12.3 | O. | 29 | 7.1 | O. |
| Okt. 1 | 9.9 | W. | 21 | 4.7 | W. | 9 | 23.6 | W. | 29 | 18.4 | W. |
| 1 | 21.2 | O. | 21 | 16.0 | O. | 10 | 10.9 | O. | 30 | 5.7 | O. |
| 2 | 8.5 | W. | 22 | 3.3 | W. | 10 | 22.2 | W. | 30 | 17.0 | W. |
| 2 | 19.8 | O. | 22 | 14.6 | O. | 11 | 9.5 | O. | Dez. 1 | 4.3 | O. |
| 3 | 7.1 | W. | 23 | 2.0 | W. | 11 | 20.8 | W. | 1 | 15.6 | W. |
| 3 | 18.4 | O. | 23 | 13.3 | O. | 12 | 8.1 | O. | 2 | 3.0 | O. |
| 4 | 5.7 | W. | 24 | 0.6 | W. | 12 | 19.4 | W. | 2 | 14.3 | W. |
| 4 | 17.0 | O. | 24 | 11.9 | O. | 13 | 6.7 | O. | 3 | 1.6 | O. |
| 5 | 4.3 | W. | 24 | 23.2 | W. | 13 | 18.0 | W. | 3 | 12.9 | W. |
| 5 | 15.6 | O. | 25 | 10.5 | O. | 14 | 5.3 | O. | 4 | 0.2 | O. |
| 6 | 2.9 | W. | 25 | 21.8 | W. | 14 | 16.6 | W. | 4 | 11.5 | W. |
| 6 | 14.2 | O. | 26 | 9.1 | O. | 15 | 3.9 | O. | 4 | 22.8 | O. |
| 7 | 1.6 | W. | 26 | 20.4 | W. | 15 | 15.2 | W. | 5 | 10.1 | W. |
| 7 | 12.9 | O. | 27 | 7.7 | O. | 16 | 2.6 | O. | 5 | 21.4 | O. |
| 8 | 0.2 | W. | 27 | 19.0 | W. | 16 | 13.9 | W. | 6 | 8.7 | W. |
| 8 | 11.5 | O. | 28 | 6.3 | O. | 17 | 1.2 | O. | 6 | 20.0 | O. |
| 8 | 22.8 | W. | 28 | 17.6 | W. | 17 | 12.5 | W. | 7 | 7.3 | W. |
| 9 | 10.1 | O. | 29 | 4.9 | O. | 17 | 23.8 | O. | 7 | 18.6 | O. |
| 9 | 21.4 | W. | 29 | 16.2 | W. | 18 | 11.1 | W. | 8 | 5.9 | W. |
| 10 | 8.7 | O. | 30 | 3.5 | O. | 18 | 22.4 | O. | 8 | 17.3 | O. |
| 10 | 20.0 | W. | 30 | 14.8 | W. | 19 | 9.7 | W. | 9 | 4.6 | W. |
| 11 | 7.3 | O. | 31 | 2.2 | O. | 19 | 21.0 | O. | 9 | 15.9 | O. |
| 11 | 18.6 | W. | 31 | 13.5 | W. | 20 | 8.3 | W. | 10 | 3.2 | W. |
| 12 | 5.9 | O. | Nov. 1 | 0.8 | O. | 20 | 19.6 | O. | 10 | 14.5 | O. |
| 12 | 17.2 | W. | 1 | 12.1 | W. | 21 | 6.9 | W. | 11 | 1.8 | W. |
| 13 | 4.5 | O. | 1 | 23.4 | O. | 21 | 18.2 | O. | 11 | 13.1 | O. |
| 13 | 15.8 | W. | 2 | 10.7 | W. | 22 | 5.5 | W. | 12 | 0.4 | W. |
| 14 | 3.1 | O. | 2 | 22.0 | O. | 22 | 16.8 | O. | 12 | 11.7 | O. |
| 14 | 14.4 | W. | 3 | 9.3 | W. | 23 | 4.1 | W. | 12 | 23.0 | W. |
| 15 | 1.8 | O. | 3 | 20.6 | O. | 23 | 15.4 | O. | 13 | 10.3 | O. |
| 15 | 13.1 | W. | 4 | 7.9 | W. | 24 | 2.8 | W. | 13 | 21.6 | W. |
| 16 | 0.4 | O. | 4 | 19.2 | O. | 24 | 14.1 | O. | 14 | 9.0 | O. |
| 16 | 11.7 | W. | 5 | 6.5 | W. | 25 | 1.4 | W. | 14 | 20.3 | W. |
| 16 | 23.0 | O. | 5 | 17.8 | O. | 25 | 12.7 | O. | 15 | 7.6 | O. |
| 17 | 10.3 | W. | 6 | 5.1 | W. | 26 | 0.0 | W. | 15 | 18.9 | W. |
| 17 | 21.6 | O. | 6 | 16.4 | O. | 26 | 11.3 | O. | 16 | 6.2 | O. |
| 18 | 8.9 | W. | 7 | 3.7 | W. | 26 | 22.6 | W. | 16 | 17.5 | W. |

## Elongationen.

### MIMAS (Fortsetzung).

| | | h | | | | h | | | | h | | | | h | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dez. | 17 | 4.8 | O. | Dez. | 20 | 23.3 | O. | Dez. | 24 | 17.8 | O. | Dez. | 28 | 12.2 | O. |
| | 17 | 16.1 | W. | | 21 | 10.6 | W. | | 25 | 5.1 | W. | | 28 | 23.5 | W. |
| | 18 | 3.4 | O. | | 21 | 21.9 | O. | | 25 | 16.4 | O. | | 29 | 10.8 | O. |
| | 18 | 14.7 | W. | | 22 | 9.2 | W. | | 26 | 3.7 | W. | | 29 | 22.1 | W. |
| | 19 | 2.0 | O. | | 22 | 20.5 | O. | | 26 | 15.0 | O. | | 30 | 9.5 | O. |
| | 19 | 13.4 | W. | | 23 | 7.8 | W. | | 27 | 2.3 | W. | | 30 | 20.8 | W. |
| | 20 | 0.7 | O. | | 23 | 19.1 | O. | | 27 | 13.6 | O. | | 31 | 8.1 | O. |
| | 20 | 12.0 | W. | | 24 | 6.4 | W. | | 28 | 0.9 | W. | | 31 | 19.4 | W. |

### ENCELADUS.

| | | h | | | | h | | | | h | | | | h | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan. | 1 | 16.0 | O. | Jan. | 22 | 5.4 | O. | Febr. | 11 | 18.8 | O. | März | 4 | 8.2 | O. |
| | 2 | 8.4 | W. | | 22 | 21.8 | W. | | 12 | 11.2 | W. | | 5 | 0.6 | W. |
| | 3 | 0.9 | O. | | 23 | 14.3 | O. | | 13 | 3.6 | O. | | 5 | 17.1 | O. |
| | 3 | 17.3 | W. | | 24 | 6.7 | W. | | 13 | 20.1 | W. | | 6 | 9.5 | W. |
| | 4 | 9.8 | O. | | 24 | 23.2 | O. | | 14 | 12.5 | O. | | 7 | 2.0 | O. |
| | 5 | 2.2 | W. | | 25 | 15.6 | W. | | 15 | 5.0 | W. | | 7 | 18.4 | W. |
| | 5 | 18.7 | O. | | 26 | 8.1 | O. | | 15 | 21.4 | O. | | | | |
| | 6 | 11.1 | W. | | 27 | 0.5 | W. | | 16 | 13.9 | W. | | | | |
| | 7 | 3.6 | O. | | 27 | 16.9 | O. | | 17 | 6.3 | O. | Sept. | 16 | 8.3 | O. |
| | 7 | 20.0 | W. | | 28 | 9.4 | W. | | 17 | 22.8 | W. | | 17 | 0.7 | W. |
| | 8 | 12.5 | O. | | 29 | 1.8 | O. | | 18 | 15.2 | O. | | 17 | 17.2 | O. |
| | 9 | 4.9 | W. | | 29 | 18.3 | W. | | 19 | 7.7 | W. | | 18 | 9.6 | W. |
| | 9 | 21.4 | O. | | 30 | 10.7 | O. | | 20 | 0.1 | O. | | 19 | 2.0 | O. |
| | 10 | 13.8 | W. | | 31 | 3.2 | W. | | 20 | 16.6 | W. | | 19 | 18.5 | W. |
| | 11 | 6.2 | O. | | 31 | 19.6 | O. | | 21 | 9.0 | O. | | 20 | 10.9 | O. |
| | 11 | 22.7 | W. | Febr. | 1 | 12.1 | W. | | 22 | 1.4 | W. | | 21 | 3.4 | W. |
| | 12 | 15.1 | O. | | 2 | 4.5 | O. | | 22 | 17.9 | O. | | 21 | 19.8 | O. |
| | 13 | 7.6 | W. | | 2 | 21.0 | W. | | 23 | 10.3 | W. | | 22 | 12.2 | W. |
| | 14 | 0.0 | O. | | 3 | 13.4 | O. | | 24 | 2.8 | O. | | 23 | 4.7 | O. |
| | 14 | 16.5 | W. | | 4 | 5.9 | W. | | 24 | 19.2 | W. | | 23 | 21.1 | W. |
| | 15 | 8.9 | O. | | 4 | 22.3 | O. | | 25 | 11.7 | O. | | 24 | 13.5 | O. |
| | 16 | 1.4 | W. | | 5 | 14.7 | W. | | 26 | 4.1 | W. | | 25 | 6.0 | W. |
| | 16 | 17.8 | O. | | 6 | 7.2 | O. | | 26 | 20.6 | O. | | 25 | 22.4 | O. |
| | 17 | 10.3 | W. | | 6 | 23.6 | W. | | 27 | 13.0 | W. | | 26 | 14.9 | W. |
| | 18 | 2.7 | O. | | 7 | 16.1 | O. | | 28 | 5.5 | O. | | 27 | 7.3 | O. |
| | 18 | 19.2 | W. | | 8 | 8.5 | W. | | 28 | 21.9 | W. | | 27 | 23.7 | W. |
| | 19 | 11.6 | O. | | 9 | 1.0 | O. | März | 1 | 14.4 | O. | | 28 | 16.2 | O. |
| | 20 | 4.0 | W. | | 9 | 17.4 | W. | | 2 | 6.8 | W. | | 29 | 8.6 | W. |
| | 20 | 20.5 | O. | | 10 | 9.9 | O. | | 2 | 23.3 | O. | | 30 | 1.0 | O. |
| | 21 | 12.9 | W. | | 11 | 2.3 | W. | | 3 | 15.7 | W. | | 30 | 17.5 | W. |

## Elongationen.

### ENCELADUS (Fortsetzung).

| | h | | | h | | | h | | | h | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Okt. 1 | 9.9 | O. | Okt. 24 | 16.8 | O. | Nov. 16 | 23.6 | O. | Dez. 10 | 6.5 | O. |
| 2 | 2.4 | W. | 25 | 9.2 | W. | 17 | 16.1 | W. | 10 | 23.0 | W. |
| 2 | 18.8 | O. | 26 | 1.7 | O. | 18 | 8.5 | O. | 11 | 15.4 | O. |
| 3 | 11.2 | W. | 26 | 18.1 | W. | 19 | 1.0 | W. | 12 | 7.9 | W. |
| 4 | 3.7 | O. | 27 | 10.5 | O. | 19 | 17.4 | O. | 13 | 0.3 | O. |
| 4 | 20.1 | W. | 28 | 3.0 | W. | 20 | 9.8 | W. | 13 | 16.7 | W. |
| 5 | 12.5 | O. | 28 | 19.4 | O. | 21 | 2.3 | O. | 14 | 9.2 | O. |
| 6 | 5.0 | W. | 29 | 11.8 | W. | 21 | 18.7 | W. | 15 | 1.6 | W. |
| 6 | 21.4 | O. | 30 | 4.3 | O. | 22 | 11.1 | O. | 15 | 18.1 | O. |
| 7 | 13.9 | W. | 30 | 20.7 | W. | 23 | 3.6 | W. | 16 | 10.5 | W. |
| 8 | 6.3 | O. | 31 | 13.2 | O. | 23 | 20.0 | O. | 17 | 3.0 | O. |
| 8 | 22.7 | W. | Nov. 1 | 5.6 | W. | 24 | 12.5 | W. | 17 | 19.4 | W. |
| 9 | 15.2 | O. | 1 | 22.0 | O. | 25 | 4.9 | O. | 18 | 11.8 | O. |
| 10 | 7.6 | W. | 2 | 14.5 | W. | 25 | 21.3 | W. | 19 | 4.3 | W. |
| 11 | 0.0 | O. | 3 | 6.9 | O. | 26 | 13.8 | O. | 19 | 20.7 | O. |
| 11 | 16.5 | W. | 3 | 23.3 | W. | 27 | 6.2 | W. | 20 | 13.2 | W. |
| 12 | 8.9 | O. | 4 | 15.8 | O. | 27 | 22.6 | O. | 21 | 5.6 | O. |
| 13 | 1.4 | W. | 5 | 8.2 | W. | 28 | 15.1 | W. | 21 | 22.0 | W. |
| 13 | 17.8 | O. | 6 | 0.6 | O. | 29 | 7.5 | O. | 22 | 14.5 | O. |
| 14 | 10.2 | W. | 6 | 17.1 | W. | 30 | 0.0 | W. | 23 | 6.9 | W. |
| 15 | 2.7 | O. | 7 | 9.5 | O. | 30 | 16.4 | O. | 23 | 23.4 | O. |
| 15 | 19.1 | W. | 8 | 2.0 | W. | Dez. 1 | 8.8 | W. | 24 | 15.8 | W. |
| 16 | 11.5 | O. | 8 | 18.4 | O. | 2 | 1.3 | O. | 25 | 8.2 | O. |
| 17 | 4.0 | W. | 9 | 10.8 | W. | 2 | 17.7 | W. | 26 | 0.7 | W. |
| 17 | 20.4 | O. | 10 | 3.3 | O. | 3 | 10.1 | O. | 26 | 17.1 | O. |
| 18 | 12.9 | W. | 10 | 19.7 | W. | 4 | 2.6 | W. | 27 | 9.6 | W. |
| 19 | 5.3 | O. | 11 | 12.1 | O. | 4 | 19.0 | O. | 28 | 2.0 | O. |
| 19 | 21.7 | W. | 12 | 4.6 | W. | 5 | 11.5 | W. | 28 | 18.5 | W. |
| 20 | 14.2 | O. | 12 | 21.0 | O. | 6 | 3.9 | O. | 29 | 10.9 | O. |
| 21 | 6.6 | W. | 13 | 13.5 | W. | 6 | 20.3 | W. | 30 | 3.3 | W. |
| 21 | 23.0 | O. | 14 | 5.9 | O. | 7 | 12.8 | O. | 30 | 19.8 | O. |
| 22 | 15.5 | W. | 14 | 22.3 | W. | 8 | 5.2 | W. | 31 | 12.2 | W. |
| 23 | 7.9 | O. | 15 | 14.8 | O. | 8 | 21.7 | O. | | | |
| 24 | 0.4 | W. | 16 | 7.2 | W. | 9 | 14.1 | W. | | | |

### TETHYS.

| | h | | | h | | | h | | | h | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan. 1 | 22.1 | W. | Jan. 5 | 16.8 | W. | Jan. 9 | 11.4 | W. | Jan. 13 | 6.0 | W. |
| 2 | 20.8 | O. | 6 | 15.4 | O. | 10 | 10.0 | O. | 14 | 4.7 | O. |
| 3 | 19.4 | W. | 7 | 14.1 | W. | 11 | 8.7 | W. | 15 | 3.3 | W. |
| 4 | 18.1 | O. | 8 | 12.7 | O. | 12 | 7.3 | O. | 16 | 2.0 | O. |

## Elongationen.

### TETHYS (Fortsetzung).

| | h | | | h | | | h | | | h | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan. 17 | 0.6 | W. | Febr. 25 | 16.4 | W. | Okt. 14 | 1.8 | W. | Nov. 22 | 16.8 | W. |
| 17 | 23.3 | O. | 26 | 15.1 | O. | 15 | 0.4 | O. | 23 | 15.5 | O. |
| 18 | 21.9 | W. | 27 | 13.8 | W. | 15 | 23.1 | W. | 24 | 14.1 | W. |
| 19 | 20.6 | O. | 28 | 12.4 | O. | 16 | 21.7 | O. | 25 | 12.8 | O. |
| 20 | 19.3 | W. | März 1 | 11.1 | W. | 17 | 20.4 | W. | 26 | 11.4 | W. |
| 21 | 17.9 | O. | 2 | 9.8 | O. | 18 | 19.0 | O. | 27 | 10.1 | O. |
| 22 | 16.6 | W. | 3 | 8.5 | W. | 19 | 17.6 | W. | 28 | 8.7 | W. |
| 23 | 15.2 | O. | 4 | 7.1 | O. | 20 | 16.3 | O. | 29 | 7.4 | O. |
| 24 | 13.9 | W. | 5 | 5.8 | W. | 21 | 14.9 | W. | 30 | 6.0 | W. |
| 25 | 12.6 | O. | 6 | 4.5 | O. | 22 | 13.6 | O. | Dez. 1 | 4.7 | O. |
| 26 | 11.2 | W. | 7 | 3.1 | W. | 23 | 12.2 | W. | 2 | 3.3 | W. |
| 27 | 9.9 | O. | | | | 24 | 10.9 | O. | 3 | 2.0 | O. |
| 28 | 8.5 | W. | | | | 25 | 9.5 | W. | 4 | 0.6 | W. |
| 29 | 7.2 | O. | Sept. 16 | 17.1 | O. | 26 | 8.2 | O. | 4 | 23.3 | O. |
| 30 | 5.9 | W. | 17 | 15.7 | W. | 27 | 6.8 | W. | 5 | 21.9 | W. |
| 31 | 4.5 | O. | 18 | 14.4 | O. | 28 | 5.4 | O. | 6 | 20.6 | O. |
| Febr. 1 | 3.2 | W. | 19 | 13.0 | W. | 29 | 4.1 | W. | 7 | 19.2 | W. |
| 2 | 1.9 | O. | 20 | 11.7 | O. | 30 | 2.7 | O. | 8 | 17.9 | O. |
| 3 | 0.5 | W. | 21 | 10.3 | W. | 31 | 1.4 | W. | 9 | 16.5 | W. |
| 3 | 23.2 | O. | 22 | 9.0 | O. | Nov. 1 | 0.0 | O. | 10 | 15.2 | O. |
| 4 | 21.8 | W. | 23 | 7.6 | W. | 1 | 22.7 | W. | 11 | 13.8 | W. |
| 5 | 20.5 | O. | 24 | 6.3 | O. | 2 | 21.3 | O. | 12 | 12.5 | O. |
| 6 | 19.2 | W. | 25 | 4.9 | W. | 3 | 20.0 | W. | 13 | 11.1 | W. |
| 7 | 17.8 | O. | 26 | 3.5 | O. | 4 | 18.6 | O. | 14 | 9.8 | O. |
| 8 | 16.5 | W. | 27 | 2.2 | W. | 5 | 17.2 | W. | 15 | 8.4 | W. |
| 9 | 15.1 | O. | 28 | 0.8 | O. | 6 | 15.9 | O. | 16 | 7.1 | O. |
| 10 | 13.8 | W. | 28 | 23.5 | W. | 7 | 14.5 | W. | 17 | 5.7 | W. |
| 11 | 12.5 | O. | 29 | 22.1 | O. | 8 | 13.2 | O. | 18 | 4.4 | O. |
| 12 | 11.1 | W. | 30 | 20.8 | W. | 9 | 11.8 | W. | 19 | 3.0 | W. |
| 13 | 9.8 | O. | Okt. 1 | 19.4 | O. | 10 | 10.5 | O. | 20 | 1.7 | O. |
| 14 | 8.5 | W. | 2 | 18.1 | W. | 11 | 9.1 | W. | 21 | 0.3 | W. |
| 15 | 7.1 | O. | 3 | 16.7 | O. | 12 | 7.7 | O. | 21 | 23.0 | O. |
| 16 | 5.8 | W. | 4 | 15.3 | W. | 13 | 6.4 | W. | 22 | 21.6 | W. |
| 17 | 4.4 | O. | 5 | 14.0 | O. | 14 | 5.0 | O. | 23 | 20.3 | O. |
| 18 | 3.1 | W. | 6 | 12.6 | W. | 15 | 3.7 | W. | 24 | 18.9 | W. |
| 19 | 1.8 | O. | 7 | 11.3 | O. | 16 | 2.3 | O. | 25 | 17.6 | O. |
| 20 | 0.4 | W. | 8 | 9.9 | W. | 17 | 1.0 | W. | 26 | 16.2 | W. |
| 20 | 23.1 | O. | 9 | 8.6 | O. | 17 | 23.6 | O. | 27 | 14.9 | O. |
| 21 | 21.8 | W. | 10 | 7.2 | W. | 18 | 22.3 | W. | 28 | 13.5 | W. |
| 22 | 20.4 | O. | 11 | 5.8 | O. | 19 | 20.9 | O. | 29 | 12.2 | O. |
| 23 | 19.1 | W. | 12 | 4.5 | W. | 20 | 19.5 | W. | 30 | 10.8 | W. |
| 24 | 17.8 | O. | 13 | 3.1 | O. | 21 | 18.2 | O. | 31 | 9.5 | O. |

## Elongationen.

### DIONE.

| | h | | | h | | | h | | | h | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan. 1 | 16.4 | W. | Febr. 15 | 20.6 | O. | Okt. 7 | 23.9 | W. | Nov. 22 | 2.9 | O. |
| 3 | 1.2 | O. | 17 | 5.4 | W. | 9 | 8.7 | O. | 23 | 11.8 | W. |
| 4 | 10.0 | W. | 18 | 14.3 | O. | 10 | 17.5 | W. | 24 | 20.6 | O. |
| 5 | 18.9 | O. | 19 | 23.1 | W. | 12 | 2.3 | O. | 26 | 5.4 | W. |
| 7 | 3.7 | W. | 21 | 8.0 | O. | 13 | 11.2 | W. | 27 | 14.2 | O. |
| 8 | 12.6 | O. | 22 | 16.9 | W. | 14 | 20.0 | O. | 28 | 23.1 | W. |
| 9 | 21.4 | W. | 24 | 1.7 | O. | 16 | 4.8 | W. | 30 | 7.9 | O. |
| 11 | 6.3 | O. | 25 | 10.6 | W. | 17 | 13.6 | O. | Dez. 1 | 16.7 | W. |
| 12 | 15.1 | W. | 26 | 19.5 | O. | 18 | 22.5 | W. | 3 | 1.5 | O. |
| 14 | 0.0 | O. | 28 | 4.3 | W. | 20 | 7.3 | O. | 4 | 10.4 | W. |
| 15 | 8.8 | W. | März 1 | 13.2 | O. | 21 | 16.1 | W. | 5 | 19.2 | O. |
| 16 | 17.7 | O. | 2 | 22.1 | W. | 23 | 0.9 | O. | 7 | 4.0 | W. |
| 18 | 2.5 | W. | 4 | 6.9 | O. | 24 | 9.7 | W. | 8 | 12.9 | O. |
| 19 | 11.4 | O. | 5 | 15.8 | W. | 25 | 18.6 | O. | 9 | 21.7 | W. |
| 20 | 20.3 | W. | 7 | 0.7 | O. | 27 | 3.4 | W. | 11 | 6.5 | O. |
| 22 | 5.1 | O. | | | | 28 | 12.2 | O. | 12 | 15.4 | W. |
| 23 | 14.0 | W. | | | | 29 | 21.0 | W. | 14 | 0.2 | O. |
| 24 | 22.8 | O. | Sept. 16 | 2.6 | W. | 31 | 5.8 | O. | 15 | 9.0 | W. |
| 26 | 7.7 | W. | 17 | 11.4 | O. | Nov. 1 | 14.6 | W. | 16 | 17.9 | O. |
| 27 | 16.5 | O. | 18 | 20.2 | W. | 2 | 23.5 | O. | 18 | 2.7 | W. |
| 29 | 1.4 | W. | 20 | 5.1 | O. | 4 | 8.3 | W. | 19 | 11.5 | O. |
| 30 | 10.3 | O. | 21 | 13.9 | W. | 5 | 17.1 | O. | 20 | 20.4 | W. |
| 31 | 19.1 | W. | 22 | 22.7 | O. | 7 | 1.9 | W. | 22 | 5.2 | O. |
| Febr. 2 | 4.0 | O. | 24 | 7.6 | W. | 8 | 10.7 | O. | 23 | 14.0 | W. |
| 3 | 12.8 | W. | 25 | 16.4 | O. | 9 | 19.6 | W. | 24 | 22.9 | O. |
| 4 | 21.7 | O. | 27 | 1.2 | W. | 11 | 4.4 | O. | 26 | 7.7 | W. |
| 6 | 6.6 | W. | 28 | 10.1 | O. | 12 | 13.2 | W. | 27 | 16.6 | O. |
| 7 | 15.4 | O. | 29 | 18.9 | W. | 13 | 22.0 | O. | 29 | 1.4 | W. |
| 9 | 0.3 | W. | Okt. 1 | 3.7 | O. | 15 | 6.8 | W. | 30 | 10.2 | O. |
| 10 | 9.1 | O. | 2 | 12.6 | W. | 16 | 15.7 | O. | 31 | 19.1 | W. |
| 11 | 18.0 | W. | 3 | 21.4 | O. | 18 | 0.5 | W. | | | |
| 13 | 2.8 | O. | 5 | 6.2 | W. | 19 | 9.3 | O. | | | |
| 14 | 11.7 | W. | 6 | 15.0 | O. | 20 | 18.1 | W. | | | |

### RHEA.

| | h | | | h | | | h | | | h | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan. 1 | 14.5 | W. | Jan. 15 | 3.8 | W. | Jan. 28 | 17.2 | W. | Febr. 11 | 6.7 | W. |
| 3 | 20.7 | O. | 17 | 10.0 | O. | 30 | 23.5 | O. | 13 | 13.0 | O. |
| 6 | 2.9 | W. | 19 | 16.3 | W. | Febr. 2 | 5.7 | W. | 15 | 19.2 | W. |
| 8 | 9.1 | O. | 21 | 22.5 | O. | 4 | 12.0 | O. | 18 | 1.5 | O. |
| 10 | 15.4 | W. | 24 | 4.7 | W. | 6 | 18.2 | W. | 20 | 7.7 | W. |
| 12 | 21.6 | O. | 26 | 11.0 | O. | 9 | 0.5 | O. | 22 | 14.0 | O. |

## Elongationen.

### RHEA (Fortsetzung).

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Febr. | 24 | 20.3^h | W. | Okt. | 2 | 3.9^h | O. | Nov. | 2 | 18.1^h | O. | Dez. | 4 | 8.3^h | O. |
| | 27 | 2.6 | O. | | 4 | 10.1 | W. | | 5 | 0.2 | W. | | 6 | 14.4 | W. |
| März | 1 | 8.8 | W. | | 6 | 16.3 | O. | | 7 | 6.4 | O. | | 8 | 20.6 | O. |
| | 3 | 15.1 | O. | | 8 | 22.4 | W. | | 9 | 12.5 | W. | | 11 | 2.8 | W. |
| | 5 | 21.4 | W. | | 11 | 4.6 | O. | | 11 | 18.7 | O. | | 13 | 9.0 | O. |
| | | | | | 13 | 10.7 | W. | | 14 | 0.8 | W. | | 15 | 15.1 | W. |
| | | | | | 15 | 16.9 | O. | | 16 | 7.0 | O. | | 17 | 21.3 | O. |
| Sept. | 16 | 8.7 | W. | | 17 | 23.0 | W. | | 18 | 13.1 | W. | | 20 | 3.5 | W. |
| | 18 | 14.8 | O. | | 20 | 5.2 | O. | | 20 | 19.3 | O. | | 22 | 9.7 | O. |
| | 20 | 21.0 | W. | | 22 | 11.3 | W. | | 23 | 1.5 | W. | | 24 | 15.9 | W. |
| | 23 | 3.2 | O. | | 24 | 17.5 | O. | | 25 | 7.6 | O. | | 26 | 22.1 | O. |
| | 25 | 9.4 | W. | | 26 | 23.6 | W. | | 27 | 13.8 | W. | | 29 | 4.3 | W. |
| | 27 | 15.5 | O. | | 29 | 5.8 | O. | | 29 | 19.9 | O. | | 31 | 10.4 | O. |
| | 29 | 21.7 | W. | | 31 | 11.9 | W. | Dez. | 2 | 2.1 | W. | | | | |

### TITAN.

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan. | 2 | 10.6^h | W. | Febr. | 19 | 8.7^h | W. | Okt. | 1 | 8.3^h | W. | Nov. | 18 | 0.8^h | W. |
| | 10 | 11.2 | O. | | 27 | 10.3 | O. | | 9 | 10.6 | O. | | 26 | 2.5 | O. |
| | 18 | 9.6 | W. | März | 7 | 8.9 | W. | | 17 | 6.0 | W. | Dez. | 3 | 22.2 | W. |
| | 26 | 10.5 | O. | | | | | | 25 | 8.0 | O. | | 11 | 23.9 | O. |
| Febr. | 3 | 9.0 | W. | | | | | Nov. | 2 | 3.4 | W. | | 19 | 20.0 | W. |
| | 11 | 10.2 | O. | Sept. | 23 | 12.8 | O. | | 10 | 5.2 | O. | | 27 | 21.8 | O. |

### HYPERION.

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan. | 1 | 17.4^h | O. | Febr. | 22 | 21.0^h | W. | Sept. | 24 | 11.8^h | W. | Nov. | 17 | 13.7^h | O. |
| | 11 | 0.0 | W. | März | 7 | 1.6 | O. | Okt. | 6 | 10.4 | O. | | 26 | 17.5 | W. |
| | 23 | 3.4 | O. | | | | | | 15 | 14.2 | W. | Dez. | 8 | 15.6 | O. |
| Febr. | 1 | 10.2 | W. | | | | | | 27 | 12.2 | O. | | 17 | 19.6 | W. |
| | 13 | 14.1 | O. | | | | | Nov. | 5 | 15.9 | W. | | 29 | 18.4 | O. |

## Elongationen und Konjunktionen.

### JAPETUS.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Jan. | 1 | 6.1^h | Westliche Elongation | Sept. | 19 | 12.3^h | Obere Konjunktion |
| | 20 | 4.2 | Obere Konjunktion | Okt. | 9 | 5.4 | Östliche Elongation |
| Febr. | 8 | 23.4 | Östliche Elongation | | 29 | 17.9 | Untere Konjunktion |
| März | 2 | 5.5 | Untere Konjunktion | Nov. | 18 | 3.7 | Westliche Elongation |
| | | | | Dez. | 6 | 16.4 | Obere Konjunktion |
| | | | | | 26 | 6.6 | Östliche Elongation |

## Verfinsterungen.

### MIMAS.

| Heliozentrische Konjunktion | | Halbe Dauer | Heliozentrische Konjunktion | | Halbe Dauer | Heliozentrische Konjunktion | | Halbe Dauer |
|---|---|---|---|---|---|---|---|---|
| | h m | m | | h m | m | | h m | m |
| Jan. 1 | 7 43 | 10 | Jan. 23 | 22 37 | 16 | Febr. 15 | 13 30 | 19 |
| 2 | 6 21 | 10 | 24 | 21 14 | 16 | 16 | 12 7 | 20 |
| 3 | 4 58 | 10 | 25 | 19 52 | 17 | 17 | 10 44 | 20 |
| 4 | 3 35 | 11 | 26 | 18 29 | 17 | 18 | 9 22 | 20 |
| 5 | 2 12 | 11 | 27 | 17 6 | 17 | 19 | 7 59 | 20 |
| 6 | 0 50 | 11 | 28 | 15 43 | 17 | 20 | 6 36 | 20 |
| 6 | 23 27 | 12 | 29 | 14 21 | 17 | 21 | 5 13 | 20 |
| 7 | 22 4 | 12 | 30 | 12 58 | 18 | 22 | 3 50 | 20 |
| 8 | 20 41 | 12 | 31 | 11 35 | 18 | 23 | 2 28 | 20 |
| 9 | 19 19 | 12 | Febr. 1 | 10 12 | 18 | 24 | 1 5 | 20 |
| 10 | 17 56 | 13 | 2 | 8 50 | 18 | 24 | 23 42 | 20 |
| 11 | 16 33 | 13 | 3 | 7 27 | 18 | 25 | 22 19 | 20 |
| 12 | 15 10 | 13 | 4 | 6 4 | 18 | 26 | 20 56 | 20 |
| 13 | 13 48 | 14 | 5 | 4 41 | 18 | 27 | 19 33 | 20 |
| 14 | 12 25 | 14 | 6 | 3 18 | 18 | 28 | 18 11 | 20 |
| 15 | 11 2 | 14 | 7 | 1 56 | 19 | März 1 | 16 48 | 20 |
| 16 | 9 39 | 14 | 8 | 0 33 | 19 | 2 | 15 25 | 20 |
| 17 | 8 17 | 15 | 8 | 23 10 | 19 | 3 | 14 2 | 20 |
| 18 | 6 54 | 15 | 9 | 21 47 | 19 | 4 | 12 39 | 20 |
| 19 | 5 31 | 15 | 10 | 20 24 | 19 | 5 | 11 16 | 20 |
| 20 | 4 8 | 15 | 11 | 19 1 | 19 | 6 | 9 54 | 20 |
| 21 | 2 45 | 16 | 12 | 17 39 | 19 | 7 | 8 31 | 20 |
| 22 | 1 23 | 16 | 13 | 16 16 | 19 | | | |
| 23 | 0 0 | 16 | 14 | 14 53 | 19 | | | |

Die anderen Trabanten werden im Jahre 1911 nicht verfinstert.

| | | h | |
|---|---|---|---|
| Jan. | 1 | 13 | ☿ ☌ ☾ |
| | 3 | 4 | ☉ im Perigäum |
| | 4 | 15 | ☿ im Perihel |
| | 4 | 16 | ☿ ☌ ♅, ☿ 1° 57′ nördl. |
| | 5 | 7 | ☿ ☌ ♀, ☿ 2° 49′ nördl. |
| | 5 | 18 | ♀ ☌ ♅, ♀ 0° 41′ südl. |
| | 7 | 2 | ♀ im Aphel |
| | 8 | 18 | ♄ ☌ ☾ |
| | 9 | 23 | ☿ untere ☌ ☉ |
| | 11 | 1 | ♆ ☍ ☉ |
| | 14 | 23 | ☿ gr. nördl. hel. Breite |
| | 16 | 2 | ♅ ☌ ☉ |
| | 20 | 17 | ♄ □ ☉ |
| | 22 | 19 | ♃ ☌ ☾ |
| | 26 | 11 | ♂ ☌ ☾ |
| | 27 | 18 | ☿ ☌ ☾ |
| | 29 | 19 | ♀ gr. südl. hel. Breite |
| | 31 | 4 | ♀ ☌ ☾ |
| Febr. | 2 | 3 | ☿ gr. westl. Elong., 25° 17′ |
| | 2 | 23 | ♃ □ ☉ |
| | 5 | 2 | ♄ ☌ ☾ |
| | 7 | 9 | ☿ im ☋ |
| | 10 | 6 | ☿ ☌ ♅, ☿ 0° 5′ nördl. |
| | 16 | 3 | ♂ ☌ 6 Sagittarii, ♂ 2° 53′ nördl. |
| | 17 | 15 | ☿ im Aphel |
| | 19 | 7 | ♃ ☌ ☾ |
| | 24 | 12 | ♂ ☌ ☾ |
| | 27 | 3 | ☿ ☌ ☾ |
| März | 2 | 7 | ♀ ☌ ☾ |
| | 4 | 11 | ♄ ☌ ☾ |
| | 10 | 0 | ☿ gr. südl. hel. Breite |
| | 10 | 22 | ♂ ☌ ♅, ♂ 0° 23′ südl. |
| | 18 | 15 | ♃ ☌ ☾ |
| | 20 | 2 | ☿ obere ☌ ☉ |
| | 21 | 7 | ☉ im ♈, Frühlingsanfang |
| | 25 | 13 | ♂ ☌ ☾ |
| | 27 | 2 | ♀ im ☊ |
| | 28 | 19 | ♀ ☌ ♄, ♀ 2° 24′ nördl. |
| | 29 | 0 | ☿ im ☊ |
| | 30 | 20 | ☿ ☌ ☾ |
| April | 1 | 0 | ♄ ☌ ☾ |
| | 1 | 6 | ♀ ☌ ☾ |
| April | 2 | 15 | ☿ im Perihel |
| | 9 | 7 | ♆ □ ☉ |
| | 12 | 22 | ☿ gr. nördl. hel. Breite |
| | 14 | 16 | ☿ gr. östl. Elong., 19° 42 |
| | 14 | 18 | ♃ ☌ ☾ |
| | 20 | 0 | ♅ □ ☉ |
| | 23 | 14 | ♂ ☌ ☾ |
| | 28 | — | ☉ Finsternis |
| | 28 | 16 | ♄ ☌ ☾ |
| | 29 | 3 | ☿ ☌ ☾ |
| | 29 | 11 | ♀ im Perihel |
| | 30 | 17 | ♃ ☍ ☉ |
| | 30 | 19 | ♄ ☌ ☉ |
| Mai | 1 | 2 | ♀ ☌ ☾ |
| | 5 | 7 | ☿ untere ☌ ☉ |
| | 6 | 9 | ☿ im ☋ |
| | 10 | 0 | ☿ ☌ ♄, ☿ 1° 11′ nördl. |
| | 11 | 18 | ♃ ☌ ☾ |
| | 16 | 14 | ☿ im Aphel |
| | 21 | 13 | ♀ gr. nördl. hel. Breite |
| | 22 | 15 | ♂ ☌ ☾ |
| | 26 | 6 | ☿ ☌ ☾ |
| | 26 | 8 | ♄ ☌ ☾ |
| | 28 | 15 | ☿ ☌ ♄, ☿ 1° 35′ südl. |
| | 29 | 16 | ♀ ☌ ♆, ♀ 2° 59′ nördl. |
| | 30 | 18 | ♀ ☌ ☾ |
| Juni | 1 | 6 | ☿ gr. westl. Elong. 24° 30′ |
| | 5 | 23 | ☿ gr. südl. hel. Breite |
| | 6 | 16 | ♂ gr. südl. hel. Breite |
| | 7 | 18 | ♃ ☌ ☾ |
| | 20 | 14 | ♂ ☌ ☾ |
| | 22 | 3 | ☉ im ♋, Sommersanfang |
| | 23 | 0 | ♄ ☌ ☾ |
| | 24 | 23 | ☿ im ☊ |
| | 25 | 10 | ☿ ☌ ☾ |
| | 29 | 6 | ♀ ☌ ☾ |
| | 29 | 14 | ☿ im Perihel |
| Juli | 1 | 10 | ♂ im Perihel |
| | 2 | 20 | ☉ im Apogäum |
| | 3 | 14 | ☿ obere ☌ ☉ |
| | 4 | 22 | ♃ ☌ ☾ |
| | 5 | 15 | ♀ ☌ α Leonis, ♀ 0° 37′ nördl. |

| | | h | |
|---|---|---|---|
| Juli | 7 | 4 | ♀ gr. östl. Elong., 45° 29′ |
| | 8 | 3 | ☿ ☌ ♆, ☿ 2° 19′ nördl. |
| | 9 | 21 | ☿ gr. nördl. hel. Breite |
| | 14 | 10 | ♆ ☌ ☉ |
| | 16 | 15 | ♀ im ☋ |
| | 19 | 8 | ♂ ☌ ☾ |
| | 20 | 12 | ♄ ☌ ☾ |
| | 20 | 19 | ♅ ☍ ☉ |
| | 26 | 21 | ☿ ☌ ☾ |
| | 28 | 10 | ♀ ☌ ☾ |
| | 29 | 3 | ☿ ☌ α Leonis, ☿ 0° 10′ nördl. |
| | 29 | 14 | ♃ □ ☉ |
| Aug. | 1 | 8 | ♃ ☌ ☾ |
| | 2 | 8 | ☿ im ☋ |
| | 8 | 18 | ♂ □ ☉ |
| | 10 | 22 | ♀ im gröfsten Glanz |
| | 12 | 13 | ☿ im Aphel |
| | 12 | 22 | ☿ gr. östl. Elong., 27° 25′ |
| | 13 | 7 | ♄ □ ☉ |
| | 16 | 17 | ♂ ☌ ♄, ♂ 0° 22′ nördl. |
| | 16 | 21 | ♂ ☌ ☾ |
| | 16 | 21 | ♄ ☌ ☾ |
| | 19 | 21 | ♀ im Aphel |
| | 25 | 5 | ☿ ☌ ☾ |
| | 25 | 13 | ♀ ☌ ☾ |
| | 28 | 23 | ♃ ☌ ☾ |
| Sept. | 1 | 22 | ☿ gr. südl. hel. Breite |
| | 9 | 4 | ☿ untere ☌ ☉ |
| | 11 | 12 | ♀ gr. südl. hel. Breite |
| | 13 | 3 | ♄ ☌ ☾ |
| | 14 | 1 | ♂ ☌ ☾ |
| | 15 | 1 | ♀ untere ☌ ☉ |
| | 20 | 17 | ☿ ☌ ☾ |
| | 20 | 23 | ☿ im ☊ |
| | 21 | 0 | ♀ ☌ ☾ |
| | 23 | 17 | ☉ in ♎. Herbstanfang |
| | 25 | 3 | ☿ gr. westl. Elong. 17° 52′ |
| | 25 | 13 | ☿ im Perihel |
| | 25 | 17 | ♃ ☌ ☾ |
| Okt. | 5 | 20 | ☿ gr. nördl. hel. Breite |
| | 10 | 7 | ♄ ☌ ☾ |
| Okt. | 11 | 19 | ♂ ☌ ☾ |
| | 17 | 19 | ♆ □ ☉ |
| | 18 | 8 | ♀ ☌ ☾ |
| | 19 | 13 | ♅ □ ☉ |
| | 21 | 15 | ☿ ☌ ☾ |
| | 21 | — | ☉ Finsternis |
| | 21 | 22 | ♀ im gröfsten Glanz |
| | 23 | 10 | ☿ obere ☌ ☉ |
| | 23 | 12 | ♃ ☌ ☾ |
| | 29 | 7 | ☿ im ☋ |
| Nov. | 1 | 2 | ♂ im ☊ |
| | 6 | 13 | ♄ ☌ ☾ |
| | 6 | 18 | ♀ im ☊ |
| | 7 | 8 | ☿ ☌ ♃, ☿ 1° 50′ südl. |
| | 7 | 22 | ♂ ☌ ☾ |
| | 8 | 13 | ☿ im Aphel |
| | 9 | 19 | ♄ ☍ ☉ |
| | 12 | 13 | ☿ ☌ δ Scorpii, ☿ 0° 29′ nördl. |
| | 13 | 9 | ☿ ☌ β Scorpii, ☿ 2° 39′ südl. |
| | 16 | 8 | ♀ ☌ ☾ |
| | 17 | 2 | ☿ ☌ α Scorpii, ☿ 2° 43′ nördl. |
| | 18 | 5 | ♃ ☌ ☉ |
| | 20 | 8 | ♃ ☌ ☾ |
| | 21 | 21 | ☿ ☌ ☾ |
| | 24 | 18 | ♂ ☍ ☉ |
| | 25 | 21 | ♀ gr. westl. Elong., 46° 45′ |
| | 28 | 21 | ☿ gr. südl. hel. Breite |
| Dez. | 3 | 20 | ♄ ☌ ☾ |
| | 4 | 17 | ♂ ☌ ☾ |
| | 7 | 8 | ☿ gr. östl. Elong., 20° 58′ |
| | 10 | 9 | ♀ im Perihel |
| | 16 | 4 | ♀ ☌ ☾ |
| | 17 | 22 | ☿ im ☊ |
| | 18 | 2 | ♃ ☌ ☾ |
| | 21 | 1 | ☿ ☌ ☾ |
| | 22 | 12 | ☿ im Perihel |
| | 22 | 12 | ☉ im ♑, Wintersanfang |
| | 25 | 5 | ☿ untere ☌ ☉ |
| | 31 | 5 | ♄ ☌ ☾ |
| | 31 | 21 | ♂ ☌ ☾ |

## Zur Berechnung der physischen Mondlibration 1911.

| 12ʰ | | M | M' | ω | 12ʰ | | M | M' | ω |
|---|---|---|---|---|---|---|---|---|---|
| Jan. | 0 | 224.2° | 358.1° | 15.4° | Juli | 9 | 186.6° | 185.4° | 46.7° |
| | 10 | 354.9 | 7.9 | 17.1 | | 19 | 317.2 | 195.2 | 48.3 |
| | 20 | 125.5 | 17.8 | 18.7 | | 29 | 87.9 | 205.1 | 50.0 |
| | 30 | 256.2 | 27.7 | 20.4 | Aug. | 8 | 218.5 | 214.9 | 51.6 |
| Febr. | 9 | 26.8 | 37.5 | 22.0 | | 18 | 349.2 | 224.8 | 53.3 |
| | 19 | 157.5 | 47.4 | 23.7 | | 28 | 119.8 | 234.6 | 54.9 |
| März | 1 | 288.1 | 57.2 | 25.3 | Sept. | 7 | 250.5 | 244.5 | 56.5 |
| | 11 | 58.8 | 67.1 | 27.0 | | 17 | 21.1 | 254.3 | 58.2 |
| | 21 | 189.4 | 76.9 | 28.6 | | 27 | 151.8 | 264.2 | 59.8 |
| | 31 | 320.1 | 86.8 | 30.2 | Okt. | 7 | 282.4 | 274.1 | 61.5 |
| April | 10 | 90.7 | 96.7 | 31.9 | | 17 | 53.1 | 283.9 | 63.1 |
| | 20 | 221.4 | 106.5 | 33.5 | | 27 | 183.7 | 293.8 | 64.8 |
| | 30 | 352.0 | 116.4 | 35.2 | Nov. | 6 | 314.4 | 303.6 | 66.4 |
| Mai | 10 | 122.7 | 126.2 | 36.8 | | 16 | 85.0 | 313.5 | 68.0 |
| | 20 | 253.3 | 136.1 | 38.5 | | 26 | 215.7 | 323.3 | 69.7 |
| | 30 | 24.0 | 145.9 | 40.1 | Dez. | 6 | 346.3 | 333.2 | 71.3 |
| Juni | 9 | 154.6 | 155.8 | 41.7 | | 16 | 117.0 | 343.1 | 73.0 |
| | 19 | 285.3 | 165.6 | 43.4 | | 26 | 247.6 | 352.9 | 74.6 |
| | 29 | 55.9 | 175.5 | 45.0 | | 36 | 18.3 | 2.8 | 76.3 |

| Bewegung von M | | | |
|---|---|---|---|
| 1ᵈ | 13.1° | 6ᵈ | 78.4° |
| 2 | 26.1 | 7 | 91.5 |
| 3 | 39.2 | 8 | 104.5 |
| 4 | 52.3 | 9 | 117.6 |
| 5 | 65.3 | 10 | 130.6 |
| 1ʰ | 0.5° | 13ʰ | 7.1° |
| 2 | 1.1 | 14 | 7.6 |
| 3 | 1.6 | 15 | 8.2 |
| 4 | 2.2 | 16 | 8.7 |
| 5 | 2.7 | 17 | 9.3 |
| 6 | 3.3 | 18 | 9.8 |
| 7 | 3.8 | 19 | 10.3 |
| 8 | 4.4 | 20 | 10.9 |
| 9 | 4.9 | 21 | 11.4 |
| 10 | 5.4 | 22 | 12.0 |
| 11 | 6.0 | 23 | 12.5 |
| 12 | 6.5 | 24 | 13.1 |

$M$ = Mittlere Anomalie des Mondes.

$M'$ = Mittlere Anomalie der Sonne.

$\omega$ = Abstand des Mondperigäums vom aufsteigenden Knoten der Mondbahn auf der Ekliptik.

$J = 1^\circ\ 32'\ 6''$ = Mittlere Neigung des Mondäquators gegen die Ekliptik.

$\tau = -12'' \sin M + 59'' \sin M' + 18'' \sin 2\,\omega$.

$\rho = -107'' \cos M + 37'' \cos (M + 2\,\omega) - 11'' \cos (2\,M + 2\,\omega)$.

$\sigma \sin J = -109'' \sin M + 37'' \sin (M + 2\,\omega) - 11'' \sin (2\,M + 2\,\omega)$.

$\tau$, $\rho$, $\sigma$ sind die Beträge der physischen Mondlibration in selenographischer Länge, der Neigung und dem Knoten des Mondäquators auf der Ekliptik.

## Tafel zur Berechnung der optischen Mondlibration.

| λ − ☊ | Δλ | $\frac{1}{a}$ | B | | λ − ☊ | Δλ | $\frac{1}{a}$ | B | |
|---|---|---|---|---|---|---|---|---|---|
| 0° | +0.0′ | +37 | +0° 0.0′ | 1.6 | 35° | +0.6′ | + 45 | +0° 52.8′ | 1.3 |
| 1 | 0.0 | 37 | 0 1.6 | 1.6 | 36 | 0.6 | 46 | 0 54.1 | 1.3 |
| 2 | 0.0 | 37 | 0 3.2 | 1.6 | 37 | 0.6 | 47 | 0 55.4 | 1.3 |
| 3 | 0.1 | 37 | 0 4.8 | 1.6 | 38 | 0.6 | 47 | 0 56.7 | 1.3 |
| 4 | 0.1 | 37 | 0 6.4 | 1.6 | 39 | 0.6 | 48 | 0 58.0 | 1.2 |
| 5 | +0.1 | +37 | +0 8.0 | 1.6 | 40 | +0.6 | + 49 | +0 59.2 | 1.2 |
| 6 | 0.1 | 37 | 0 9.6 | 1.6 | 41 | 0.6 | 49 | 1 0.4 | 1.2 |
| 7 | 0.1 | 38 | 0 11.2 | 1.6 | 42 | 0.6 | 50 | 1 1.6 | 1.2 |
| 8 | 0.2 | 38 | 0 12.8 | 1.6 | 43 | 0.6 | 51 | 1 2.8 | 1.2 |
| 9 | 0.2 | 38 | 0 14.4 | 1.6 | 44 | 0.6 | 52 | 1 4.0 | 1.2 |
| 10 | +0.2 | +38 | +0 16.0 | 1.6 | 45 | +0.6 | + 53 | +1 5.2 | 1.1 |
| 11 | 0.2 | 38 | 0 17.6 | 1.5 | 46 | 0.6 | 54 | 1 6.3 | 1.1 |
| 12 | 0.2 | 38 | 0 19.1 | 1.6 | 47 | 0.6 | 55 | 1 7.4 | 1.1 |
| 13 | 0.3 | 38 | 0 20.7 | 1.6 | 48 | 0.6 | 56 | 1 8.5 | 1.1 |
| 14 | 0.3 | 38 | 0 22.3 | 1.6 | 49 | 0.6 | 57 | 1 9.6 | 1.0 |
| 15 | +0.3 | +39 | +0 23.9 | 1.5 | 50 | +0.6 | + 58 | +1 10.6 | 1.1 |
| 16 | 0.3 | 39 | 0 25.4 | 1.6 | 51 | 0.6 | 59 | 1 11.7 | 1.0 |
| 17 | 0.3 | 39 | 0 27.0 | 1.5 | 52 | 0.6 | 60 | 1 12.7 | 1.0 |
| 18 | 0.4 | 39 | 0 28.5 | 1.6 | 53 | 0.6 | 61 | 1 13.7 | 0.9 |
| 19 | 0.4 | 39 | 0 30.1 | 1.5 | 54 | 0.6 | 63 | 1 14.6 | 0.9 |
| 20 | +0.4 | +40 | +0 31.6 | 1.5 | 55 | +0.6 | + 65 | +1 15.5 | 0.9 |
| 21 | 0.4 | 40 | 0 33.1 | 1.5 | 56 | 0.6 | 67 | 1 16.4 | 0.9 |
| 22 | 0.4 | 40 | 0 34.6 | 1.5 | 57 | 0.6 | 69 | 1 17.3 | 0.8 |
| 23 | 0.4 | 41 | 0 36.1 | 1.4 | 58 | 0.6 | 71 | 1 18.1 | 0.9 |
| 24 | 0.5 | 41 | 0 37.5 | 1.5 | 59 | 0.5 | 73 | 1 19.0 | 0.8 |
| 25 | +0.5 | +41 | +0 39.0 | 1.4 | 60 | +0.5 | + 75 | +1 19.8 | 0.8 |
| 26 | 0.5 | 41 | 0 40.4 | 1.5 | 61 | 0.5 | 77 | 1 20.6 | 0.7 |
| 27 | 0.5 | 42 | 0 41.9 | 1.4 | 62 | 0.5 | 79 | 1 21.3 | 0.8 |
| 28 | 0.5 | 42 | 0 43.3 | 1.4 | 63 | 0.5 | 82 | 1 22.1 | 0.7 |
| 29 | 0.5 | 43 | 0 44.7 | 1.4 | 64 | 0.5 | 85 | 1 22.8 | 0.7 |
| 30 | +0.5 | +43 | +0 46.1 | 1.4 | 65 | +0.5 | + 88 | +1 23.5 | 0.6 |
| 31 | 0.5 | 43 | 0 47.5 | 1.3 | 66 | 0.5 | 92 | 1 24.1 | 0.7 |
| 32 | 0.6 | 44 | 0 48.8 | 1.3 | 67 | 0.4 | 96 | 1 24.8 | 0.6 |
| 33 | 0.6 | 44 | 0 50.1 | 1.3 | 68 | 0.4 | 100 | 1 25.4 | 0.6 |
| 34 | 0.6 | 45 | 0 51.4 | 1.4 | 69 | 0.4 | 104 | 1 26.0 | 0.5 |
| 35 | +0.6 | +45 | +0 52.8 | | 70 | +0.4 | +109 | +1 26.5 | |

## Tafel zur Berechnung der optischen Mondlibration.

| λ−☋ | Δλ | $\frac{1}{a}$ | $B$ | | λ−☋ | Δλ | $\frac{1}{a}$ | $B$ | |
|---|---|---|---|---|---|---|---|---|---|
| 70° | +0.4′ | +109 | +1° 26.5′ | 0.6 | 80° | +0.2′ | +215 | +1° 30.7′ | 0.2 |
| 71 | 0.4 | 115 | 1 27.1 | 0.5 | 81 | 0.2 | 239 | 1 30.9 | 0.2 |
| 72 | 0.4 | 121 | 1 27.6 | 0.5 | 82 | 0.2 | 268 | 1 31.1 | 0.2 |
| 73 | 0.3 | 128 | 1 28.1 | 0.5 | 83 | 0.1 | 306 | 1 31.3 | 0.2 |
| 74 | 0.3 | 136 | 1 28.6 | 0.4 | 84 | 0.1 | 357 | 1 31.5 | 0.2 |
| 75 | +0.3 | +144 | +1 29.0 | 0.4 | 85 | +0.1 | +429 | +1 31.7 | 0.1 |
| 76 | 0.3 | 154 | 1 29.4 | 0.4 | 86 | 0.1 | 535 | 1 31.8 | 0.1 |
| 77 | 0.3 | 166 | 1 29.8 | 0.3 | 87 | 0.1 | 713 | 1 31.9 | 0.1 |
| 78 | 0.2 | 180 | 1 30.1 | 0.3 | 88 | 0.0 | 1070 | 1 32.0 | 0.1 |
| 79 | 0.2 | 196 | 1 30.4 | 0.3 | 89 | 0.0 | +2139 | 1 32.1 | 0.0 |
| 80 | +0.2 | +215 | +1 30.7 | | 90 | 0.0 | ∞ | +1 32.1 | |

$J = 1° 32' 6''$ = Neigung des Mondäquators gegen die Ekliptik.

☋ = 180° + ☊ = Länge des absteigenden Knotens der Mondbahn auf der Ekliptik (siehe Tafel S. 88).

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

$$\Delta\lambda = \operatorname{tg}\frac{J^2}{2}\sin 2(\lambda - ☋)\; 3437'.75 \qquad \frac{1}{a} = \frac{1}{\cos(\lambda - ☋)\sin J}$$

$$\operatorname{tg} B = \sin(\lambda - ☋)\operatorname{tg} J$$

$l_0$ = Mittlere Länge des Mondes (siehe Tafel S. 88)

$l'$, $b'$ = Optische Libration der Mondmitte in selenographischer Länge und Breite

$$l' = \lambda + \Delta\lambda - \frac{B - \beta}{\frac{1}{a}} - l_0$$

$$b' = B - \beta.$$

Für λ − ☋ zwischen 90° und 180° gehe man mit dem Argument 180° − (λ − ☋) in die Tafel ein und nehme Δλ und $\frac{1}{a}$ negativ.

Für λ − ☋ zwischen 180° und 270° gehe man mit dem Argument λ − ☋ − 180° in die Tafel ein und nehme $\frac{1}{a}$ und $B$ negativ.

Für λ − ☋ zwischen 270° und 360° gehe man mit dem Argument 360° − (λ − ☋) in die Tafel ein und nehme Δλ und $B$ negativ.

## Bruchteile des Jahres 1911,

für $0^h$ Mittl. Zeit der mittleren Sonnentage, gezählt vom Beginn des annus fictus.

| Monats-tag | Januar | | Februar | | März | | April | | Mai | | Juni | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Jahres-tag | Jahres-bruch | Jahres-tag | Jahres-bruch | Jahres-tag | Jahres-bruch | Jahres-tag | Jahres-bruch | Jahres-tag | Jahres-bruch | Jahres-tag | Jahres-bruch |
| 1 | 0 | 0.0000 | 31 | 0.0848 | 59 | 0.1615 | 90 | 0.2464 | 120 | 0.3285 | 151 | 0.4134 |
| 2 | 1 | 0027 | 32 | 0876 | 60 | 1642 | 91 | 2491 | 121 | 3312 | 152 | 4161 |
| 3 | 2 | 0054 | 33 | 0903 | 61 | 1670 | 92 | 2518 | 122 | 3340 | 153 | 4189 |
| 4 | 3 | 0082 | 34 | 0930 | 62 | 1697 | 93 | 2546 | 123 | 3367 | 154 | 4216 |
| 5 | 4 | 0109 | 35 | 0958 | 63 | 1724 | 94 | 2573 | 124 | 3395 | 155 | 4243 |
| 6 | 5 | 0.0136 | 36 | 0.0985 | 64 | 0.1752 | 95 | 0.2601 | 125 | 0.3422 | 156 | 0.4271 |
| 7 | 6 | 0164 | 37 | 1013 | 65 | 1779 | 96 | 2628 | 126 | 3449 | 157 | 4298 |
| 8 | 7 | 0191 | 38 | 1040 | 66 | 1807 | 97 | 2655 | 127 | 3477 | 158 | 4325 |
| 9 | 8 | 0219 | 39 | 1067 | 67 | 1834 | 98 | 2683 | 128 | 3504 | 159 | 4353 |
| 10 | 9 | 0246 | 40 | 1095 | 68 | 1861 | 99 | 2710 | 129 | 3532 | 160 | 4380 |
| 11 | 10 | 0.0273 | 41 | 0.1122 | 69 | 0.1889 | 100 | 0.2737 | 130 | 0.3559 | 161 | 0.4408 |
| 12 | 11 | 0301 | 42 | 1149 | 70 | 1916 | 101 | 2765 | 131 | 3586 | 162 | 4435 |
| 13 | 12 | 0328 | 43 | 1177 | 71 | 1943 | 102 | 2792 | 132 | 3614 | 163 | 4462 |
| 14 | 13 | 0355 | 44 | 1204 | 72 | 1971 | 103 | 2820 | 133 | 3641 | 164 | 4490 |
| 15 | 14 | 0383 | 45 | 1232 | 73 | 1998 | 104 | 2847 | 134 | 3668 | 165 | 4517 |
| 16 | 15 | 0.0410 | 46 | 0.1259 | 74 | 0.2026 | 105 | 0.2874 | 135 | 0.3696 | 166 | 0.4544 |
| 17 | 16 | 0438 | 47 | 1286 | 75 | 2053 | 106 | 2902 | 136 | 3723 | 167 | 4572 |
| 18 | 17 | 0465 | 48 | 1314 | 76 | 2080 | 107 | 2929 | 137 | 3750 | 168 | 4599 |
| 19 | 18 | 0492 | 49 | 1341 | 77 | 2108 | 108 | 2956 | 138 | 3778 | 169 | 4627 |
| 20 | 19 | 0520 | 50 | 1369 | 78 | 2135 | 109 | 2984 | 139 | 3805 | 170 | 4654 |
| 21 | 20 | 0.0547 | 51 | 0.1396 | 79 | 0.2162 | 110 | 0.3011 | 140 | 0.3833 | 171 | 0.4681 |
| 22 | 21 | 0575 | 52 | 1423 | 80 | 2190 | 111 | 3039 | 141 | 3860 | 172 | 4709 |
| 23 | 22 | 0602 | 53 | 1451 | 81 | 2217 | 112 | 3066 | 142 | 3887 | 173 | 4736 |
| 24 | 23 | 0629 | 54 | 1478 | 82 | 2245 | 113 | 3093 | 143 | 3915 | 174 | 4764 |
| 25 | 24 | 0657 | 55 | 1505 | 83 | 2272 | 114 | 3121 | 144 | 3942 | 175 | 4791 |
| 26 | 25 | 0.0684 | 56 | 0.1533 | 84 | 0.2299 | 115 | 0.3148 | 145 | 0.3970 | 176 | 0.4818 |
| 27 | 26 | 0711 | 57 | 1560 | 85 | 2327 | 116 | 3176 | 146 | 3997 | 177 | 4846 |
| 28 | 27 | 0739 | 58 | 1588 | 86 | 2354 | 117 | 3203 | 147 | 4024 | 178 | 4873 |
| 29 | 28 | 0766 | 59 | 1615 | 87 | 2382 | 118 | 3230 | 148 | 4052 | 179 | 4900 |
| 30 | 29 | 0794 | | | 88 | 2409 | 119 | 3258 | 149 | 4079 | 180 | 4928 |
| 31 | 30 | 0.0821 | | | 89 | 0.2436 | 120 | 0.3285 | 150 | 0.4106 | 181 | 0.4955 |
| 32 | 31 | 0848 | | | 90 | 2464 | | | 151 | 4134 | | |

## Bruchteile des Jahres 1911,

**für 0ʰ Mittl. Zeit der mittleren Sonnentage, gezählt vom Beginn des annus fictus.**

| Monats-tag | Juli | | August | | September | | Oktober | | November | | Dezember | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Jahres-tag | Jahres-bruch | Jahres-tag | Jahres-bruch | Jahres-tag | Jahres-bruch | Jahres-tag | Jahres-bruch | Jahres-tag | Jahres-bruch | Jahres-tag | Jahres-bruch |
| 1 | 181 | 0.4955 | 212 | 0.5804 | 243 | 0.6653 | 273 | 0.7474 | 304 | 0.8323 | 334 | 0.9144 |
| 2 | 182 | 4983 | 213 | 5831 | 244 | 6680 | 274 | 7501 | 305 | 8350 | 335 | 9172 |
| 3 | 183 | 5010 | 214 | 5859 | 245 | 6707 | 275 | 7529 | 306 | 8378 | 336 | 9199 |
| 4 | 184 | 5037 | 215 | 5886 | 246 | 6735 | 276 | 7556 | 307 | 8405 | 337 | 9226 |
| 5 | 185 | 5065 | 216 | 5913 | 247 | 6762 | 277 | 7584 | 308 | 8432 | 338 | 9254 |
| 6 | 186 | 0.5092 | 217 | 0.5941 | 248 | 0.6790 | 278 | 0.7611 | 309 | 0.8460 | 339 | 0.9281 |
| 7 | 187 | 5119 | 218 | 5968 | 249 | 6817 | 279 | 7638 | 310 | 8487 | 340 | 9308 |
| 8 | 188 | 5147 | 219 | 5996 | 250 | 6844 | 280 | 7666 | 311 | 8514 | 341 | 9336 |
| 9 | 189 | 5174 | 220 | 6023 | 251 | 6872 | 281 | 7693 | 312 | 8542 | 342 | 9363 |
| 10 | 190 | 5202 | 221 | 6050 | 252 | 6899 | 282 | 7720 | 313 | 8569 | 343 | 9391 |
| 11 | 191 | 0.5229 | 222 | 0.6078 | 253 | 0.6926 | 283 | 0.7748 | 314 | 0.8597 | 344 | 0.9418 |
| 12 | 192 | 5256 | 223 | 6105 | 254 | 6954 | 284 | 7775 | 315 | 8624 | 345 | 9445 |
| 13 | 193 | 5284 | 224 | 6132 | 255 | 6981 | 285 | 7803 | 316 | 8651 | 346 | 9473 |
| 14 | 194 | 5311 | 225 | 6160 | 256 | 7009 | 286 | 7830 | 317 | 8679 | 347 | 9500 |
| 15 | 195 | 5338 | 226 | 6187 | 257 | 7036 | 287 | 7857 | 318 | 8706 | 348 | 9527 |
| 16 | 196 | 0.5366 | 227 | 0.6215 | 258 | 0.7063 | 288 | 0.7885 | 319 | 0.8733 | 349 | 0.9555 |
| 17 | 197 | 5393 | 228 | 6242 | 259 | 7091 | 289 | 7912 | 320 | 8761 | 350 | 9582 |
| 18 | 198 | 5421 | 229 | 6269 | 260 | 7118 | 290 | 7939 | 321 | 8788 | 351 | 9610 |
| 19 | 199 | 5448 | 230 | 6297 | 261 | 7146 | 291 | 7967 | 322 | 8816 | 352 | 9637 |
| 20 | 200 | 5475 | 231 | 6324 | 262 | 7173 | 292 | 7994 | 323 | 8843 | 353 | 9664 |
| 21 | 201 | 0.5503 | 232 | 0.6352 | 263 | 0.7200 | 293 | 0.8022 | 324 | 0.8870 | 354 | 0.9692 |
| 22 | 202 | 5530 | 233 | 6379 | 264 | 7228 | 294 | 8049 | 325 | 8898 | 355 | 9719 |
| 23 | 203 | 5558 | 234 | 6406 | 265 | 7255 | 295 | 8076 | 326 | 8925 | 356 | 9747 |
| 24 | 204 | 5585 | 235 | 6434 | 266 | 7282 | 296 | 8104 | 327 | 8953 | 357 | 9774 |
| 25 | 205 | 5612 | 236 | 6461 | 267 | 7310 | 297 | 8131 | 328 | 8980 | 358 | 9801 |
| 26 | 206 | 0.5640 | 237 | 0.6488 | 268 | 0.7337 | 298 | 0.8159 | 329 | 0.9007 | 359 | 0.9829 |
| 27 | 207 | 5667 | 238 | 6516 | 269 | 7365 | 299 | 8186 | 330 | 9035 | 360 | 9856 |
| 28 | 208 | 5694 | 239 | 6543 | 270 | 7392 | 300 | 8213 | 331 | 9062 | 361 | 9883 |
| 29 | 209 | 5722 | 240 | 6571 | 271 | 7419 | 301 | 8241 | 332 | 9089 | 362 | 9911 |
| 30 | 210 | 5749 | 241 | 6598 | 272 | 7447 | 302 | 8268 | 333 | 9117 | 363 | 9938 |
| 31 | 211 | 0.5777 | 242 | 0.6625 | 273 | 0.7474 | 303 | 0.8295 | 334 | 0.9144 | 364 | 0.9966 |
| 32 | 212 | 5804 | 243 | 6653 | | | 304 | 8323 | | | 365 | 9993 |

# Julianische Periode.

## Anzahl der am Mittag des 1. Januar eines jeden Schaltjahrs seit Anfang der Periode verflossenen Tage.

| Jahr n. Chr. | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
|---|---|---|---|---|---|---|---|---|---|---|
| | 17 | 17 | 17 | 18 | 18 | 19 | 19 | 19 | 20 | 20 |
| 0 | 21058 | 57583 | 94108 | 30633 | 67158 | 03683 | 40208 | 76733 | 13258 | 49783 |
| 4 | 22519 | 59044 | 95569 | 32094 | 68619 | 05144 | 41669 | 78194 | 14719 | 51244 |
| 8 | 23980 | 60505 | 97030 | 33555 | 70080 | 06605 | 43130 | 79655 | 16180 | 52705 |
| 12 | 25441 | 61966 | 98491 | 35016 | 71541 | 08066 | 44591 | 81116 | 17641 | 54166 |
| 16 | 26902 | 63427 | 99952 | 36477 | 73002 | 09527 | 46052 | 82577 | 19102 | 55627 |
| 20 | 28363 | 64888 | 01413 | 37938 | 74463 | 10988 | 47513 | 84038 | 20563 | 57088 |
| 24 | 29824 | 66349 | 02874 | 39399 | 75924 | 12449 | 48974 | 85499 | 22024 | 58549 |
| 28 | 31285 | 67810 | 04335 | 40860 | 77385 | 13910 | 50435 | 86960 | 23485 | 60010 |
| 32 | 32746 | 69271 | 05796 | 42321 | 78846 | 15371 | 51896 | 88421 | 24946 | 61471 |
| 36 | 34207 | 70732 | 07257 | 43782 | 80307 | 16832 | 53357 | 89882 | 26407 | 62932 |
| 40 | 35668 | 72193 | 08718 | 45243 | 81768 | 18293 | 54818 | 91343 | 27868 | 64393 |
| 44 | 37129 | 73654 | 10179 | 46704 | 83229 | 19754 | 56279 | 92804 | 29329 | 65854 |
| 48 | 38590 | 75115 | 11640 | 48165 | 84690 | 21215 | 57740 | 94265 | 30790 | 67315 |
| 52 | 40051 | 76576 | 13101 | 49626 | 86151 | 22676 | 59201 | 95726 | 32251 | 68776 |
| 56 | 41512 | 78037 | 14562 | 51087 | 87612 | 24137 | 60662 | 97187 | 33712 | 70237 |
| 60 | 42973 | 79498 | 16023 | 52548 | 89073 | 25598 | 62123 | 98648 | 35173 | 71698 |
| 64 | 44434 | 80959 | 17484 | 54009 | 90534 | 27059 | 63584 | 00109 | 36634 | 73159 |
| 68 | 45895 | 82420 | 18945 | 55470 | 91995 | 28520 | 65045 | 01570 | 38095 | 74620 |
| 72 | 47356 | 83881 | 20406 | 56931 | 93456 | 29981 | 66506 | 03031 | 39556 | 76081 |
| 76 | 48817 | 85342 | 21867 | 58392 | 94917 | 31442 | 67967 | 04492 | 41017 | 77542 |
| 80 | 50278 | 86803 | 23328 | 59853 | 96378 | 32903 | 69428 | 05953 | 42478 | 79003 |
| 84 | 51739 | 88264 | 24789 | 61314 | 97839 | 34364 | 70889 | 07414 | 43939 | 80464 |
| 88 | 53200 | 89725 | 26250 | 62775 | 99300 | 35825 | 72350 | 08875 | 45400 | 81925 |
| 92 | 54661 | 91186 | 27711 | 64236 | 00761 | 37286 | 73811 | 10336 | 46861 | 83386 |
| 96 | 56122 | 92647 | 29172 | 65697 | 02222 | 38747 | 75272 | 11797 | 48322 | 84847 |
| 100 | 57583 | 94108 | 30633 | 67158 | 03683 | 40208 | 76733 | 13258 | 49783 | 86308 |
| | 17 | 17 | 18 | 18 | 19 | 19 | 19 | 20 | 20 | 20 |

| Jahr n. Chr. | Tage | Jahr n. Chr. | Tage |
|---|---|---|---|
| 0 | 1721058 | 1580 | 2298153 |
| 1 | 1721424 | 1581 | 2298519 |
| 2 | 1721789 | 1582 | 2298884 |
| 3 | 1722154 | 1583 | 2299239 |
| 4 | 1722519 | 1584 | 2299604 |

## Julianische Periode.

### Anzahl der am Mittag des 1. Januar eines jeden Schaltjahrs seit Anfang der Periode verflossenen Tage.

| Jahr n. Chr. | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 |
|---|---|---|---|---|---|---|---|---|---|---|
| | 20 | 21 | 21 | 21 | 22 | 22 | 23 | 23 | 23 | 24 |
| 0 | 86308 | 22833 | 59358 | 95883 | 32408 | 68933 | 05448 | 41973* | 78497* | 15021* |
| 4 | 87769 | 24294 | 60819 | 97344 | 33869 | 70394 | 06909 | 43433 | 79957 | 16481 |
| 8 | 89230 | 25755 | 62280 | 98805 | 35330 | 71855 | 08370 | 44894 | 81418 | 17942 |
| 12 | 90691 | 27216 | 63741 | 00266 | 36791 | 73316 | 09831 | 46355 | 82879 | 19403 |
| 16 | 92152 | 28677 | 65202 | 01727 | 38252 | 74777 | 11292 | 47816 | 84340 | 20864 |
| 20 | 93613 | 30138 | 66663 | 03188 | 39713 | 76238 | 12753 | 49277 | 85801 | 22325 |
| 24 | 95074 | 31599 | 68124 | 04649 | 41174 | 77699 | 14214 | 50738 | 87262 | 23786 |
| 28 | 96535 | 33060 | 69585 | 06110 | 42635 | 79160 | 15675 | 52199 | 88723 | 25247 |
| 32 | 97996 | 34521 | 71046 | 07571 | 44096 | 80621 | 17136 | 53660 | 90184 | 26708 |
| 36 | 99457 | 35982 | 72507 | 09032 | 45557 | 82082 | 18597 | 55121 | 91645 | 28169 |
| 40 | 00918 | 37443 | 73968 | 10493 | 47018 | 83543 | 20058 | 56582 | 93106 | 29630 |
| 44 | 02379 | 38904 | 75429 | 11954 | 48479 | 85004 | 21519 | 58043 | 94567 | 31091 |
| 48 | 03840 | 40365 | 76890 | 13415 | 49940 | 86465 | 22980 | 59504 | 96028 | 32552 |
| 52 | 05301 | 41826 | 78351 | 14876 | 51401 | 87926 | 24441 | 60965 | 97489 | 34013 |
| 56 | 06762 | 43287 | 79812 | 16337 | 52862 | 89387 | 25902 | 62426 | 98950 | 35474 |
| 60 | 08223 | 44748 | 81273 | 17798 | 54323 | 90848 | 27363 | 63887 | 00411 | 36935 |
| 64 | 09684 | 46209 | 82734 | 19259 | 55784 | 92309 | 28824 | 65348 | 01872 | 38396 |
| 68 | 11145 | 47670 | 84195 | 20720 | 57245 | 93770 | 30285 | 66809 | 03333 | 39857 |
| 72 | 12606 | 49131 | 85656 | 22181 | 58706 | 95231 | 31746 | 68270 | 04794 | 41318 |
| 76 | 14067 | 50592 | 87117 | 23642 | 60167 | 96692 | 33207 | 69731 | 06255 | 42779 |
| 80 | 15528 | 52053 | 88578 | 25103 | 61628 | 98153 | 34668 | 71192 | 07716 | 44240 |
| 84 | 16989 | 53514 | 90039 | 26564 | 63089 | 99604 | 36129 | 72653 | 09177 | 45701 |
| 88 | 18450 | 54975 | 91500 | 28025 | 64550 | 01065 | 37590 | 74114 | 10638 | 47162 |
| 92 | 19911 | 56436 | 92961 | 29486 | 66011 | 02526 | 39051 | 75575 | 12099 | 48623 |
| 96 | 21372 | 57897 | 94422 | 30947 | 67472 | 03987 | 40512 | 77036 | 13560 | 50084 |
| 100 | 22833 | 59358 | 95883 | 32408 | 68933 | 05448 | 41973* | 78497* | 15021* | 51545 |
| | 21 | 21 | 21 | 22 | 22 | 23 | 23 | 23 | 24 | 24 |

Anm. Die mit * bezeichneten Jahre sind Gemeinjahre.

| Jahr n. Chr. | Tage | Jahr n. Chr. | Tage | Jahr n. Chr. | Tage |
|---|---|---|---|---|---|
| 1700 | 2341973 | 1800 | 2378497 | 1900 | 2415021 |
| 1701 | 2342338 | 1801 | 2378862 | 1901 | 2415386 |
| 1702 | 2342703 | 1802 | 2379227 | 1902 | 2415751 |
| 1703 | 2343068 | 1803 | 2379592 | 1903 | 2416116 |
| 1704 | 2343433 | 1804 | 2379957 | 1904 | 2416481 |

# Zur Verwandlung der Mittl. Zeit in Sternzeit.

Tafel I.

| Red. auf St.-Zt. | Mittl. Zt. |
|---|---|
| m s | h m s |
| + 0 0 | 0 0 0 |
| 0 10 | 1 0 52 |
| 0 20 | 2 1 45 |
| 0 30 | 3 2 37 |
| 0 40 | 4 3 30 |
| 0 50 | 5 4 22 |
| + 1 0 | 6 5 15 |
| 1 10 | 7 6 7 |
| 1 20 | 8 6 59 |
| 1 30 | 9 7 52 |
| 1 40 | 10 8 44 |
| 1 50 | 11 9 37 |
| + 2 0 | 12 10 29 |
| 2 10 | 13 11 21 |
| 2 20 | 14 12 14 |
| 2 30 | 15 13 6 |
| 2 40 | 16 13 59 |
| 2 50 | 17 14 51 |
| + 3 0 | 18 15 44 |
| 3 10 | 19 16 36 |
| 3 20 | 20 17 28 |
| 3 30 | 21 18 21 |
| 3 40 | 22 19 13 |
| 3 50 | 23 20 6 |
| 4 0 | 24 20 58 |

Tafel II.

| Red. auf St.-Zt. | Mittl. Zt. | Red. auf St.-Zt. | Mittl. Zt. | Red. auf St.-Zt. | Mittl. Zt. |
|---|---|---|---|---|---|
| s | m s | s | m s | s | m s |
| + 0.0 | 0 0 | + 4.0 | 24 21 | + 8.0 | 48 42 |
| 0.1 | 0 37 | 4.1 | 24 58 | 8.1 | 49 19 |
| 0.2 | 1 13 | 4.2 | 25 34 | 8.2 | 49 55 |
| 0.3 | 1 50 | 4.3 | 26 11 | 8.3 | 50 32 |
| 0.4 | 2 26 | 4.4 | 26 47 | 8.4 | 51 8 |
| 0.5 | 3 3 | 4.5 | 27 24 | 8.5 | 51 45 |
| 0.6 | 3 39 | 4.6 | 28 0 | 8.6 | 52 21 |
| 0.7 | 4 16 | 4.7 | 28 37 | 8.7 | 52 58 |
| 0.8 | 4 52 | 4.8 | 29 13 | 8.8 | 53 34 |
| 0.9 | 5 29 | 4.9 | 29 50 | 8.9 | 54 11 |
| + 1.0 | 6 5 | + 5.0 | 30 26 | + 9.0 | 54 47 |
| 1.1 | 6 42 | 5.1 | 31 3 | 9.1 | 55 24 |
| 1.2 | 7 18 | 5.2 | 31 39 | 9.2 | 56 0 |
| 1.3 | 7 55 | 5.3 | 32 16 | 9.3 | 56 37 |
| 1.4 | 8 31 | 5.4 | 32 52 | 9.4 | 57 13 |
| 1.5 | 9 8 | 5.5 | 33 29 | 9.5 | 57 50 |
| 1.6 | 9 44 | 5.6 | 34 5 | 9.6 | 58 26 |
| 1.7 | 10 21 | 5.7 | 34 42 | 9.7 | 59 3 |
| 1.8 | 10 57 | 5.8 | 35 18 | 9.8 | 59 39 |
| 1.9 | 11 34 | 5.9 | 35 55 | 9.9 | 60 16 |
| + 2.0 | 12 10 | + 6.0 | 36 31 | | |
| 2.1 | 12 47 | 6.1 | 37 8 | | |
| 2.2 | 13 23 | 6.2 | 37 44 | | |
| 2.3 | 14 0 | 6.3 | 38 21 | | |
| 2.4 | 14 36 | 6.4 | 38 57 | | |
| 2.5 | 15 13 | 6.5 | 39 34 | | |
| 2.6 | 15 49 | 6.6 | 40 10 | | |
| 2.7 | 16 26 | 6.7 | 40 47 | | |
| 2.8 | 17 2 | 6.8 | 41 23 | | |
| 2.9 | 17 39 | 6.9 | 42 0 | | |
| + 3.0 | 18 16 | + 7.0 | 42 37 | | |
| 3.1 | 18 53 | 7.1 | 43 14 | | |
| 3.2 | 19 29 | 7.2 | 43 50 | | |
| 3.3 | 20 6 | 7.3 | 44 27 | | |
| 3.4 | 20 42 | 7.4 | 45 3 | | |
| 3.5 | 21 19 | 7.5 | 45 40 | | |
| 3.6 | 21 55 | 7.6 | 46 16 | | |
| 3.7 | 22 32 | 7.7 | 46 53 | | |
| 3.8 | 23 8 | 7.8 | 47 29 | | |
| 3.9 | 23 45 | 7.9 | 48 6 | | |

Tafel III.

| | |
|---|---|
| s | m s |
| + 0.01 | 0 4 |
| 0.02 | 0 7 |
| 0.03 | 0 11 |
| 0.04 | 0 15 |
| 0.05 | 0 18 |
| 0.06 | 0 22 |
| 0.07 | 0 26 |
| 0.08 | 0 29 |
| 0.09 | 0 33 |
| 0.10 | 0 37 |

## Zur Verwandlung der Sternzeit in Mittl. Zeit.

### Tafel I.

| Red. auf Mittl. Zt. | Stern - Zt. |
|---|---|
| m s | h m s |
| — 0 0 | 0 0 0 |
| 0 10 | 1 1 2 |
| 0 20 | 2 2 5 |
| 0 30 | 3 3 7 |
| 0 40 | 4 4 10 |
| 0 50 | 5 5 12 |
| — 1 0 | 6 6 15 |
| 1 10 | 7 7 17 |
| 1 20 | 8 8 19 |
| 1 30 | 9 9 22 |
| 1 40 | 10 10 24 |
| 1 50 | 11 11 27 |
| — 2 0 | 12 12 29 |
| 2 10 | 13 13 31 |
| 2 20 | 14 14 34 |
| 2 30 | 15 15 36 |
| 2 40 | 16 16 39 |
| 2 50 | 17 17 41 |
| — 3 0 | 18 18 44 |
| 3 10 | 19 19 46 |
| 3 20 | 20 20 48 |
| 3 30 | 21 21 51 |
| 3 40 | 22 22 53 |
| 3 50 | 23 23 56 |
| 4 0 | 24 24 58 |

### Tafel II.

| Red. auf Mittl. Zt. | Stern - Zt. | Red. auf Mittl. Zt. | Stern - Zt. | Red. auf Mittl. Zt. | Stern - Zt. |
|---|---|---|---|---|---|
| s | m s | s | m s | s | m s |
| — 0.0 | 0 0 | — 4.0 | 24 25 | — 8.0 | 48 50 |
| 0.1 | 0 37 | 4.1 | 25 2 | 8.1 | 49 27 |
| 0.2 | 1 13 | 4.2 | 25 38 | 8.2 | 50 3 |
| 0.3 | 1 50 | 4.3 | 26 15 | 8.3 | 50 40 |
| 0.4 | 2 26 | 4.4 | 26 51 | 8.4 | 51 16 |
| 0.5 | 3 3 | 4.5 | 27 28 | 8.5 | 51 53 |
| 0.6 | 3 40 | 4.6 | 28 5 | 8.6 | 52 30 |
| 0.7 | 4 16 | 4.7 | 28 41 | 8.7 | 53 6 |
| 0.8 | 4 53 | 4.8 | 29 18 | 8.8 | 53 43 |
| 0.9 | 5 30 | 4.9 | 29 55 | 8.9 | 54 20 |
| — 1.0 | 6 6 | — 5.0 | 30 31 | — 9.0 | 54 56 |
| 1.1 | 6 43 | 5.1 | 31 8 | 9.1 | 55 33 |
| 1.2 | 7 19 | 5.2 | 31 44 | 9.2 | 56 9 |
| 1.3 | 7 56 | 5.3 | 32 21 | 9.3 | 56 46 |
| 1.4 | 8 32 | 5.4 | 32 57 | 9.4 | 57 22 |
| 1.5 | 9 9 | 5.5 | 33 34 | 9.5 | 57 59 |
| 1.6 | 9 46 | 5.6 | 34 11 | 9.6 | 58 36 |
| 1.7 | 10 22 | 5.7 | 34 47 | 9.7 | 59 12 |
| 1.8 | 10 59 | 5.8 | 35 24 | 9.8 | 59 49 |
| 1.9 | 11 36 | 5.9 | 36 1 | 9.9 | 60 26 |
| — 2.0 | 12 12 | — 6.0 | 36 37 | | |
| 2.1 | 12 49 | 6.1 | 37 14 | | |
| 2.2 | 13 25 | 6.2 | 37 50 | | |
| 2.3 | 14 2 | 6.3 | 38 27 | | |
| 2.4 | 14 38 | 6.4 | 39 3 | | |
| 2.5 | 15 15 | 6.5 | 39 40 | | |
| 2.6 | 15 52 | 6.6 | 40 17 | | |
| 2.7 | 16 28 | 6.7 | 40 53 | | |
| 2.8 | 17 5 | 6.8 | 41 30 | | |
| 2.9 | 17 42 | 6.9 | 42 7 | | |
| — 3.0 | 18 19 | — 7.0 | 42 44 | | |
| 3.1 | 18 56 | 7.1 | 43 21 | | |
| 3.2 | 19 32 | 7.2 | 43 57 | | |
| 3.3 | 20 9 | 7.3 | 44 34 | | |
| 3.4 | 20 45 | 7.4 | 45 10 | | |
| 3.5 | 21 22 | 7.5 | 45 47 | | |
| 3.6 | 21 59 | 7.6 | 46 24 | | |
| 3.7 | 22 35 | 7.7 | 47 0 | | |
| 3.8 | 23 12 | 7.8 | 47 37 | | |
| 3.9 | 23 49 | 7.9 | 48 14 | | |

### Tafel III.

| | |
|---|---|
| s | m s |
| — 0.01 | 0 4 |
| 0.02 | 0 7 |
| 0.03 | 0 11 |
| 0.04 | 0 15 |
| 0.05 | 0 18 |
| 0.06 | 0 22 |
| 0.07 | 0 26 |
| 0.08 | 0 29 |
| 0.09 | 0 33 |
| 0.10 | 0 37 |

## Zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt.

| Tag | h m s | Tag | h m s | Tag | h m s |
|---|---|---|---|---|---|
| 0.01 | 0 14 24 | 0.36 | 8 38 24 | 0.71 | 17 2 24 |
| 0.02 | 0 28 48 | 0.37 | 8 52 48 | 0.72 | 17 16 48 |
| 0.03 | 0 43 12 | 0.38 | 9 7 12 | 0.73 | 17 31 12 |
| 0.04 | 0 57 36 | 0.39 | 9 21 36 | 0.74 | 17 45 36 |
| 0.05 | 1 12 0 | 0.40 | 9 36 0 | 0.75 | 18 0 0 |
| 0.06 | 1 26 24 | 0.41 | 9 50 24 | 0.76 | 18 14 24 |
| 0.07 | 1 40 48 | 0.42 | 10 4 48 | 0.77 | 18 28 48 |
| 0.08 | 1 55 12 | 0.43 | 10 19 12 | 0.78 | 18 43 12 |
| 0.09 | 2 9 36 | 0.44 | 10 33 36 | 0.79 | 18 57 36 |
| 0.10 | 2 24 0 | 0.45 | 10 48 0 | 0.80 | 19 12 0 |
| 0.11 | 2 38 24 | 0.46 | 11 2 24 | 0.81 | 19 26 24 |
| 0.12 | 2 52 48 | 0.47 | 11 16 48 | 0.82 | 19 40 48 |
| 0.13 | 3 7 12 | 0.48 | 11 31 12 | 0.83 | 19 55 12 |
| 0.14 | 3 21 36 | 0.49 | 11 45 36 | 0.84 | 20 9 36 |
| 0.15 | 3 36 0 | 0.50 | 12 0 0 | 0.85 | 20 24 0 |
| 0.16 | 3 50 24 | 0.51 | 12 14 24 | 0.86 | 20 38 24 |
| 0.17 | 4 4 48 | 0.52 | 12 28 48 | 0.87 | 20 52 48 |
| 0.18 | 4 19 12 | 0.53 | 12 43 12 | 0.88 | 21 7 12 |
| 0.19 | 4 33 36 | 0.54 | 12 57 36 | 0.89 | 21 21 36 |
| 0.20 | 4 48 0 | 0.55 | 13 12 0 | 0.90 | 21 36 0 |
| 0.21 | 5 2 24 | 0.56 | 13 26 24 | 0.91 | 21 50 24 |
| 0.22 | 5 16 48 | 0.57 | 13 40 48 | 0.92 | 22 4 48 |
| 0.23 | 5 31 12 | 0.58 | 13 55 12 | 0.93 | 22 19 12 |
| 0.24 | 5 45 36 | 0.59 | 14 9 36 | 0.94 | 22 33 36 |
| 0.25 | 6 0 0 | 0.60 | 14 24 0 | 0.95 | 22 48 0 |
| 0.26 | 6 14 24 | 0.61 | 14 38 24 | 0.96 | 23 2 24 |
| 0.27 | 6 28 48 | 0.62 | 14 52 48 | 0.97 | 23 16 48 |
| 0.28 | 6 43 12 | 0.63 | 15 7 12 | 0.98 | 23 31 12 |
| 0.29 | 6 57 36 | 0.64 | 15 21 36 | 0.99 | 23 45 36 |
| 0.30 | 7 12 0 | 0.65 | 15 36 0 | 1.00 | 24 0 0 |
| 0.31 | 7 26 24 | 0.66 | 15 50 24 | | |
| 0.32 | 7 40 48 | 0.67 | 16 4 48 | | |
| 0.33 | 7 55 12 | 0.68 | 16 19 12 | | |
| 0.34 | 8 9 36 | 0.69 | 16 33 36 | | |
| 0.35 | 8 24 0 | 0.70 | 16 48 0 | | |

## Zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt.

| Tag | m s | Tag | m s | Tag | m s | Tag | s |
|---|---|---|---|---|---|---|---|
| 0.0001 | 0 8.64 | 0.0036 | 5 11.04 | 0.0071 | 10 13.44 | 0.00001 | 0.864 |
| 02 | 0 17.28 | 37 | 5 19.68 | 72 | 10 22.08 | 2 | 1.728 |
| 03 | 0 25.92 | 38 | 5 28.32 | 73 | 10 30.72 | 3 | 2.592 |
| 04 | 0 34.56 | 39 | 5 36.96 | 74 | 10 39.36 | 4 | 3.456 |
| 05 | 0 43.20 | 40 | 5 45.60 | 75 | 10 48.00 | 5 | 4.320 |
| 06 | 0 51.84 | 41 | 5 54.24 | 76 | 10 56.64 | 6 | 5.184 |
| 07 | 1 0.48 | 42 | 6 2.88 | 77 | 11 5.28 | 7 | 6.048 |
| 08 | 1 9.12 | 43 | 6 11.52 | 78 | 11 13.92 | 8 | 6.912 |
| 09 | 1 17.76 | 44 | 6 20.16 | 79 | 11 22.56 | 9 | 7.776 |
| 10 | 1 26.40 | 45 | 6 28.80 | 80 | 11 31.20 | 10 | 8.640 |
| 11 | 1 35.04 | 46 | 6 37.44 | 81 | 11 39.84 | | |
| 12 | 1 43.68 | 47 | 6 46.08 | 82 | 11 48.48 | | |
| 13 | 1 52.32 | 48 | 6 54.72 | 83 | 11 57.12 | | |
| 14 | 2 0.96 | 49 | 7 3.36 | 84 | 12 5.76 | | |
| 15 | 2 9.60 | 50 | 7 12.00 | 85 | 12 14.40 | | |
| 16 | 2 18.24 | 51 | 7 20.64 | 86 | 12 23.04 | 0.000001 | 0.086 |
| 17 | 2 26.88 | 52 | 7 29.28 | 87 | 12 31.68 | 2 | 0.173 |
| 18 | 2 35.52 | 53 | 7 37.92 | 88 | 12 40.32 | 3 | 0.259 |
| 19 | 2 44.16 | 54 | 7 46.56 | 89 | 12 48.96 | 4 | 0.346 |
| 20 | 2 52.80 | 55 | 7 55.20 | 90 | 12 57.60 | 5 | 0.432 |
| 21 | 3 1.44 | 56 | 8 3.84 | 91 | 13 6.24 | 6 | 0.518 |
| 22 | 3 10.08 | 57 | 8 12.48 | 92 | 13 14.88 | 7 | 0.605 |
| 23 | 3 18.72 | 58 | 8 21.12 | 93 | 13 23.52 | 8 | 0.691 |
| 24 | 3 27.36 | 59 | 8 29.76 | 94 | 13 32.16 | 9 | 0.778 |
| 25 | 3 36.00 | 60 | 8 38.40 | 95 | 13 40.80 | 10 | 0.864 |
| 26 | 3 44.64 | 61 | 8 47.04 | 96 | 13 49.44 | | |
| 27 | 3 53.28 | 62 | 8 55.68 | 97 | 13 58.08 | | |
| 28 | 4 1.92 | 63 | 9 4.32 | 98 | 14 6.72 | | |
| 29 | 4 10.56 | 64 | 9 12.96 | 99 | 14 15.36 | | |
| 30 | 4 19.20 | 65 | 9 21.60 | 100 | 14 24.00 | | |
| 31 | 4 27.84 | 66 | 9 30.24 | | | | |
| 32 | 4 36.48 | 67 | 9 38.88 | | | | |
| 33 | 4 45.12 | 68 | 9 47.52 | | | | |
| 34 | 4 53.76 | 69 | 9 56.16 | | | | |
| 35 | 5 2.40 | 70 | 10 4.80 | | | | |

## Hülfsgröfsen zur Berechnung der Präzession nach Newcomb

von den Katalogepochen $t_0$ bis 1911.0.

$t = 1911.0.$

| $t_0$ | $m^s(t-t_0)$ | $\log[n^s(t-t_0)]$ | $\log[n''(t-t_0)]$ |
|---|---|---|---|
| 1755 | $+7^{m}\ 59^{s}.090$ | 2.319203 | 3.495294 |
| 1790 | 6 11.642 | 2.208831 | 3.384922 |
| 1800 | 5 40.937 | 2.171360 | 3.347451 |
| 1810 | 5 10.232 | 2.130348 | 3.306439 |
| 1825 | 4 24.171 | 2.060513 | 3.236604 |
| 1830 | +4 8.815 | 2.034494 | 3.210585 |
| 1835 | 3 53.460 | 2.006819 | 3.182910 |
| 1836 | 3 50.388 | 2.001065 | 3.177156 |
| 1840 | 3 38.103 | 1.977258 | 3.153349 |
| 1842 | 3 31.961 | 1.964847 | 3.140938 |
| 1845 | +3 22.747 | 1.945540 | 3.121631 |
| 1850 | 3 7.390 | 1.911321 | 3.087412 |
| 1855 | 2 52.033 | 1.874174 | 3.050265 |
| 1860 | 2 36.675 | 1.833552 | 3.009643 |
| 1864 | 2 24.389 | 1.79808 | 2.97417 |
| 1865 | +2 21.317 | 1.78873 | 2.96483 |
| 1870 | 2 5.959 | 1.73876 | 2.91485 |
| 1872 | 1 59.815 | 1.71703 | 2.89313 |
| 1875 | 1 50.599 | 1.68227 | 2.85836 |
| 1880 | 1 35.240 | 1.61732 | 2.79342 |
| 1885 | +1 19.880 | 1.54093 | 2.71702 |
| 1890 | 1 4.519 | 1.44817 | 2.62426 |
| 1895 | 0 49.158 | 1.33007 | 2.50616 |
| 1900 | 0 33.797 | 1.16734 | 2.34343 |
| 1910 | 0 3.073 | 0.12594 | 1.30203 |

*m* und *n* sind die Newcombschen Konstanten für die Epoche $\frac{1}{2}(t+t_0)$.

Ist $\alpha', \delta'$ der genäherte Sternort für die Zeit $\frac{1}{2}(t+t_0)$,

so ist

$$\alpha = \alpha_0 + [m^s(t-t_0)] + [n^s(t-t_0)]\sin\alpha'\,\mathrm{tg}\,\delta'$$

$$\delta = \delta_0 + [n''(t-t_0)]\cos\alpha'.$$

## Hülfsgröfsen zur Übertragung mittlerer Polsternörter

von dem Äquinoktium $t_0$ auf 1911.0.

$t = 1911.0.$

| $t_0$ | $\zeta_0$ | $z$ | $\Theta$ |
|---|---|---|---|
| 1755 | 59′ 52.″28 | 59′ 54.″21 | 52′ 8.″04 |
| 1790 | 46 26.76 | 46 27.92 | 40 26.10 |
| 1800 | 42 36.57 | 42 37.54 | 37 5.56 |
| 1810 | 38 46.35 | 38 47.16 | 33 45.02 |
| 1825 | 33 0.99 | 33 1.57 | 28 44.23 |
| 1830 | 31 5.86 | 31 6.38 | 27 3.97 |
| 1835 | 29 10.72 | 29 11.18 | 25 23.71 |
| 1840 | 27 15.58 | 27 15.98 | 23 43.46 |
| 1845 | 25 20.43 | 25 20.78 | 22 3.20 |
| 1850 | 23 25.28 | 23 25.58 | 20 22.95 |
| 1855 | 21 30.13 | 21 30.38 | 18 42.70 |
| 1860 | 19 34.96 | 19 35.17 | 17 2.45 |
| 1865 | 17 39.79 | 17 39.96 | 15 22.20 |
| 1870 | 15 44.62 | 15 44.76 | 13 41.95 |
| 1875 | 13 49.44 | 13 49.55 | 12 1.71 |
| 1880 | 11 54.26 | 11 54.34 | 10 21.46 |
| 1885 | 9 59.07 | 9 59.13 | 8 41.22 |
| 1890 | 8 3.87 | 8 3.91 | 7 0.98 |
| 1895 | 6 8.67 | 6 8.70 | 5 20.75 |
| 1900 | 4 13.47 | 4 13.48 | 3 40.51 |
| 1905 | 2 18.26 | 2 18.26 | 2 0.28 |
| 1910 | 0 23.04 | 0 23.04 | 0 20.05 |

Sind $\alpha_0$, $\delta_0$ die Koordinaten für $t_0$, $\alpha$, $\delta$ jene für $t$, so hat man:

$$a_0 = \alpha_0 + \zeta_0$$

$$p = (\text{tang}\,\delta_0 + \cos a_0\,\text{tang}\,\tfrac{1}{2}\,\Theta)\sin\Theta$$

$$\text{tang}\,\Delta a = \frac{p\sin a_0}{1 - p\cos a_0}$$

$$\alpha = a_0 + z + \Delta a$$

$$\text{tang}\,\tfrac{1}{2}(\delta - \delta_0) = \cos(a_0 + \tfrac{1}{2}\Delta a)\sec\tfrac{1}{2}\Delta a\,\text{tang}\,\tfrac{1}{2}\,\Theta$$

oder, fast immer ausreichend genau:

$$\delta = \delta_0 + \Theta\cos(a_0 + \tfrac{1}{2}\Delta a)\sec\tfrac{1}{2}\Delta a.$$

| Name | Seehöhe | Geogr. Breite | Länge von Berlin + westlich | Korr. der Sternzeit | Geoz. Breite | Log. ρ incl. Seehöhe |
|---|---|---|---|---|---|---|
| | m | ° ' " | h m s | s | ° ' " | |
| Abbadia . . . . . | 69 | +43 22 52.2 | +1 0 34.9 | + 9.95 | +43 11 22.8 | 9.999322 |
| Åbo . . . . . . . | — | +60 26 56.8 | −0 35 31.50 | − 5.84 | +60 17 3.1 | 9.998902 |
| Adelaide . . . . | 43 | −34 55 38.5 | −8 20 45.62 | −82.26 | −34 44 50.9 | 9.999529 |
| Albany (N. Stw.)[1] | 40 | +42 39 12.6 | +5 48 41.16 | +57.28 | +42 27 44.5 | 9.999339 |
| Alfred Centre N.Y. | 556 | +42 15 19.8 | +6 4 41.93 | +59.91 | +42 3 52.5 | 9.999384 |
| Algier (N. Stw.)[2] . | 342 | +36 47 50 | +0 41 26.42 | + 6.81 | +36 36 48 | 9.999505 |
| Allegheny . . . . | 349 | +40 27 41.6 | +6 13 37.77 | +61.38 | +40 16 20.0 | 9.999415 |
| Altenburg[3] . . | 229 | +50 58 20 | +0 3 50.64 | + 0.63 | +50 47 4 | 9.999141 |
| Altona Mer.-Kreis[4] | 31 | +53 32 45.3 | +0 13 48.61 | + 2.27 | +53 21 44.5 | 9.999065 |
| Amherst (Neue Stw.) | 110 | +42 21 56.5 | +5 43 40.78 | +56.46 | +42 10 29.0 | 9.999341 |
| Amherst (Alte Stw.) | 122 | +42 22 17.1 | +5 43 39.52 | +56.46 | +42 10 49.6 | 9.999351 |
| Annapolis . . . . | — | +38 58 53.5 | +5 59 31.33 | +59.06 | +38 47 38.5 | 9.999428 |
| Ann Arbor . . . | 285 | +42 16 48.0 | +6 28 30.03 | +63.82 | +42 5 20.7 | 9.999364 |
| Arcetri Zentr. d. St.[5] | 186 | +43 45 14.4 | +0 8 33.50 | + 1.41 | +43 33 44.5 | 9.999321 |
| Arequipa . . . . | 2451 | −16 22 28.0 | +5 39 46.53 | +55.82 | −16 16 15.4 | 0.000053 |
| Armagh . . . . . | 61 | +54 21 12.7 | +1 20 10.2 | +13.17 | +54 10 17.8 | 9.999047 |
| Athen . . . . . . | — | +37 58 20.7 | −0 41 18.12 | − 6.78 | +37 47 11.3 | 9.999453 |
| Bamberg (Remeis' St.) | 299 | +49 53 6.0 | +0 10 1.23 | + 1.65 | +49 41 45.0 | 9.999174 |
| Barcelona[6] . . . | — | +41 24 2 | +0 44 59.7 | + 7.39 | +41 12 37 | 9.999368 |
| Beloit . . . . . . | — | +42 30 9 | +6 49 42.2 | +67.31 | +42 18 41 | 9.999340 |
| Bergen . . . . . | — | +60 23 54 | +0 32 22.07 | + 5.32 | +60 14 0 | 9.998903 |
| Berkeley . . . . | 97 | +37 52 23.6 | +9 2 37.56 | +89.14 | +37 41 14.7 | 9.999462 |
| Berlin Zentr. d. St.[7] | 47 | +52 30 16.7 | 0 0 0.00 | 0.00 | +52 19 9.0 | 9.999091 |
| Berlin (Urania) . . | — | +52 31 30.7 | +0 0 7.40 | + 0.02 | +52 20 23.2 | 9.999088 |
| Bern . . . . . . | 573 | +46 57 8.7 | +0 23 49.25 | + 3.91 | +46 45 39.5 | 9.999266 |
| Besançon . . . . | 312 | +47 14 59.0 | +0 29 37.7 | + 4.87 | +47 3 30.3 | 9.999241 |
| Bethlehem[8] . . | — | +40 36 23.5 | +5 55 6.74 | +58.34 | +40 25 1.3 | 9.999388 |
| Birr Castle[9] . . | — | +53 5 47 | +1 25 15.7 | +14.00 | +52 54 43 | 9.999073 |
| Bogota . . . . . | 2700 | + 4 35 48 | +5 50 34 | +57.59 | + 4 33 58 | 0.000175 |
| Bologna Zentr. d. Stw. | — | +44 29 52.8 | +0 8 10.32 | + 1.34 | +44 18 16 | 9.999289 |
| Bombay (Colaba) . | 19 | +18 53 36.2 | −3 57 40.90 | −39.05 | +18 46 34.1 | 9.999850 |
| Bonn Zentr. d. Stw. . | 62 | +50 43 45.0 | +0 25 11.62 | + 4.14 | +50 32 27.7 | 9.999136 |
| Bordeaux (Floirac) | 73 | +44 50 7.2 | +0 55 40.30 | + 9.14 | +44 38 36.6 | 9.999286 |
| Boston (University) | — | +42 21 32.5 | +5 37 49.8 | +55.50 | +42 10 5.0 | 9.999344 |
| Bothkamp[10] . . | 32 | +54 12 9.6 | +0 13 3.6 | + 2.15 | +54 1 13.6 | 9.999048 |
| Bremen (Olbers' Stw.) | — | +53 4 36 | +0 18 20 | + 3.01 | +52 53 32 | 9.999074 |
| Breslau Zentr. d. Stw. | 147 | +51 6 56.5 | −0 14 33.92 | − 2.39 | +50 55 41.1 | 9.999132 |

[1]) Dudley Observatory, seit Juni 1893. Alte Sternwarte 37".0 nördlich, 7s.10 östlich. — [2]) Alte Sternwarte 3'.8 südlich, 8s östlich. — [3]) Fr. Krüger. — [4]) 1873 nach Kiel verlegt. — [5]) Seit Oktober 1872, früher in Florenz. — [6]) J. Comas Solá. — [7]) Seit 1835. Alte Sternwarte 56".4 nördlich, 0s.39 westlich. — [8]) Sayre Observatory, auch South-Bethlehem. — [9]) Earl of Rosse. — [10]) Herr von Bülow.

| Name | Seehöhe | Geogr. Breite | Länge von Berlin + westlich | Korr. der Sternzeit | Geoz. Breite | Log. ρ incl. Seehöhe |
|---|---|---|---|---|---|---|
| | m | ° ′ ″ | h m s | s | ° ′ ″ | |
| Brisbane . . . . . . | — | −27 28 0 | −9 18 31.6 | −91.75 | −27 18 36 | 9.999693 |
| Brüssel (Alte St.) Pass. Instr. | 56 | +50 51 10.7 | +0 36 6.09 | + 5.93 | +50 39 54.0 | 9.999133 |
| Brüssel (Uccle) . . . . | 102 | +50 47 53 | +0 36 8.1 | + 5.94 | +50 36 36 | 9.999137 |
| Budapest[1]) . . . . . | — | +47 29 34.7 | −0 22 40.5 | − 3.73 | +47 18 6.5 | 9.999213 |
| Bukarest (Mil. Geogr. Inst.) | — | +44 24 34.2 | −0 50 52.21 | − 8.36 | +44 13 3.7 | 9.999292 |
| Cambridge Engl. . . | 28 | +52 12 51.6 | +0 53 12.05 | + 8.74 | +52 1 42.2 | 9.999097 |
| Cambridge Mass.[2]) . | 24 | +42 22 47.6 | +5 38 5.82 | +55.54 | +42 11 20.1 | 9.999345 |
| Cap d. gut. Hoffnung | 16 | −33 56 3.2 | −0 20 19.94 | − 3.34 | −33 45 24.3 | 9.999551 |
| Catania . . . . . . . | 60 | +37 30 13.3 | −0 6 45.8 | − 1.11 | +37 19 6.7 | 9.999468 |
| Chapultepec (Alte Stw.)[3]) | — | +19 25 17.5 | +7 30 13.08 | +73.96 | +19 18 5.5 | 9.999841 |
| Charkow . . . . . . | 138 | +50 0 10.2 | −1 31 19.8 | −15.01 | +49 48 49.7 | 9.999159 |
| Charlottesville[4]) . . | 250 | +38 2 1.2 | +6 7 40.06 | +60.40 | +37 50 51.4 | 9.999468 |
| Chicago (Alte Stw.)[5]) . | — | +41 50 1.0 | +6 44 1.62 | +66.37 | +41 38 34.8 | 9.999357 |
| Christiania Mer.-Kreis . | 25 | +59 54 43.7 | +0 10 41.29 | + 1.76 | +59 44 43.5 | 9.998916 |
| Cincinnati (Alte Stw.) . | — | +39 6 26.5 | +6 31 33.89 | +64.32 | +38 55 10.9 | 9.999425 |
| Cincinnati (Neue Stw.)[6]) | 263 | +39 8 19.8 | +6 31 16.13 | +64.27 | +38 57 4.0 | 9.999442 |
| Cleveland (Case Obs.) . | — | +41 30 14.5 | +6 20 0.66 | +62.43 | +41 18 49.3 | 9.999365 |
| Clinton (Litchfield Obs.) | 276 | +43 3 16.5 | +5 55 12.28 | +58.35 | +42 51 47.6 | 9.999345 |
| Coimbra . . . . . . | 99 | +40 12 25.8 | +1 27 9.0 | +14.32 | +40 1 5.2 | 9.999405 |
| Columbia Missouri[7]) . | 225 | +38 56 51.7 | +7 2 53.17 | +69.47 | +38 45 36.9 | 9.999444 |
| Cordoba . . . . . . | 439 | −31 25 15.5 | +5 10 23.0 | +50.99 | −31 15 2.0 | 9.999638 |
| Danzig . . . . . . | 3 | +54 21 18.0 | −0 21 4.7 | − 3.46 | +54 10 23.1 | 9.999043 |
| Denver[8]) . . . . . . | 1650 | +39 40 36.4 | +7 53 22.47 | +77.76 | +39 29 18.1 | 9.999523 |
| Dorpat Mer.-Kreis . . | 73 | +58 22 47.1 | −0 53 18.43 | − 8.76 | +58 12 29.5 | 9.998953 |
| Dresden (Neue Stw.)[9]) . | 121 | +51 2 16.8 | −0 1 19.94 | − 0.22 | +50 51 1.0 | 9.999132 |
| Dresden (Mathem. Salon) | — | +51 3 14.7 | −0 1 21.03 | − 0.22 | +50 51 59.0 | 9.999124 |
| Dublin (Dunsink Obs.) . | 86 | +53 23 13.1 | +1 18 55.9 | +12.97 | +53 12 11.2 | 9.999072 |
| Düsseldorf (Bilk) . . . | 26 | +51 12 25.0 | +0 26 29.9 | + 4.35 | +51 1 10.0 | 9.999122 |
| Dunecht[10]) . . . . . | 141 | +57 9 36 | +1 3 15 | +10.39 | +56 59 6 | 9.998986 |
| Durham . . . . . . . | — | +54 46 6.2 | +0 59 54.5 | + 9.84 | +54 35 14.6 | 9.999033 |
| Edinburg . . . . . . | 106 | +55 57 23.2 | +1 6 17.85 | +10.89 | +55 46 41.7 | 9.999012 |
| Edinburg (Blackf. Hill) . | 134 | +55 55 28.0 | +1 6 18.8 | +10.89 | +55 44 46.2 | 9.999014 |
| Evanston (Dearborn Obs.) | — | +42 3 33.4 | +6 44 17.1 | +66.41 | +41 52 6.6 | 9.999351 |
| Flagstaff (Lowell Obs.) . | — | +35 12 30.5 | +8 20 19.4 | +82.19 | +35 1 40.5 | 9.999520 |
| Florenz (Alte Sternw.)[11]) | 73 | +43 46 4.1 | +0 8 33.50 | + 1.40 | +43 34 34.2 | 9.999313 |
| Florenz (Mil. Geogr. Inst.) | — | +43 46 49.3 | +0 8 32.28 | + 1.40 | +43 35 19.4 | 9.999308 |
| Genf Mer.-Kreis . . . . | 407 | +46 11 59.1 | +0 28 58.19 | + 4.76 | +46 0 29.0 | 9.999274 |

[1]) Geod. Observ. des Polytechnikums. — [2]) Harvard College Observatory. — [3]) 1883 nach Tacubaya verlegt. [4]) Leander Mc. Cormick Obs. der University of Virginia. — [5]) 1887 geschlossen. — [6]) Mount Lookout, seit 1873. — [7]) Laws Observatory. — [8]) University Park, Chamberlin Observatory. — [9]) v. Engelhardt; Herbst 1897 aufgelöst. Alte Sternwarte 14″.2 nördlich, 1ˢ.57 westlich. — [10]) Earl of Crawford. — [11]) 1872 nach Arcetri verlegt.

| Name | Seehöhe | Geogr. Breite | Länge von Berlin + westlich | Korr. der Sternzeit | Geoz. Breite | Log. ρ incl. Seehöhe |
|---|---|---|---|---|---|---|
| | m | ° ' " | h m s | s | ° ' " | |
| Genua (Mar. Stw.) Mer.-Kr. | — | +44 25 9.3 | +0 17 53.52 | + 2.94 | +44 13 38.8 | 9.999291 |
| Georgetown D. C. . . . | 46 | +38 54 26.2 | +6 1 53.13 | +59.45 | +38 43 11.6 | 9.999433 |
| Glasgow Schottl. . . . | — | +55 52 42.6 | +1 10 45.35 | +11.62 | +55 42 0.4 | 9.999007 |
| Glasgow Missouri . . . | 228 | +39 13 45.6 | +7 4 52.86 | +69.80 | +39 2 29.4 | 9.999438 |
| Göttingen Mer.-Kreis . . | 161 | +51 31 48.2 | +0 13 48.58 | + 2.27 | +51 20 34.6 | 9.999123 |
| Gohlis[1]) . . . . . . | 108 | +51 21 35.0 | +0 4 5.26 | + 0.67 | +51 10 20.8 | 9.999123 |
| Gotha (Neue Stw.) Zentr. d. St.[2]) | 320 | +50 56 37.5 | +0 10 44.36 | + 1.76 | +50 45 21.2 | 9.999149 |
| Graz . . . . . . . . . | 375 | +47 4 37.2 | —0 8 13 | — 1.35 | +46 53 8.2 | 9.999250 |
| Greenwich Transit Circle | 47 | +51 28 38.1 | +0 53 34.80 | + 8.80 | +51 17 24.5 | 9.999116 |
| Grignon . . . . . . . | — | +47 33 42 | +0 35 57 | + 5.91 | +47 22 14 | 9.999212 |
| Hamburg (Alte Stw.) M.-Kr. | 25 | +53 33 5.2 | +0 13 41.20 | + 2.25 | +53 22 4.4 | 9.999064 |
| Hamburg (Bergedorf) M.-Kr. | 40 | +53 28 46.0 | +0 12 37.06 | + 2.07 | +53 17 44.7 | 9.999067 |
| Hamburg (D. Seewarte) . | 30 | +53 32 51.8 | +0 13 41.38 | + 2.25 | +53 21 51.0 | 9.999065 |
| Hanover N. H. . . . . | — | +43 42 15.2 | +5 42 42.80 | +56.30 | +43 30 45.4 | 9.999310 |
| Harrow (Col. Tupmann) . | 66 | +51 34 47.4 | +0 54 54.7 | + 9.19 | +51 23 33.5 | 9.999115 |
| Hastings on Huds.[3]) . | — | +40 59 25 | +5 49 4.5 | +57.35 | +40 48 1 | 9.999378 |
| Haverford . . . . . | — | +40 0 36.5 | +5 54 47.59 | +58.28 | +39 49 16.7 | 9.999403 |
| Heidelberg (Wolfs Stw.) | — | +49 24 35 | +0 18 46.4 | + 3.08 | +49 13 12 | 9.999165 |
| Heidelberg (Königst.) M.-Kr. | 570 | +49 23 54.6 | +0 18 41.67 | + 3.07 | +49 12 31.7 | 9.999204 |
| St. Helena . . . . . . | 210 | —15 55 26 | +1 16 27.0 | +12.56 | —15 49 23 | 9.999906 |
| Helsingfors Mer.-Kreis . | 38 | +60 9 42.6 | —0 46 14.30 | — 7.60 | +59 59 45.4 | 9.998912 |
| Herény (von Gothard) . . | 229 | +47 15 47.4 | —0 12 49.8 | — 2.11 | +47 4 18.7 | 9.999235 |
| Hongkong . . . . . . | — | +22 18 13.2 | —6 43 7.1 | —66.22 | +22 10 9.4 | 9.999792 |
| Hudson . . . . . . | — | +41 14 42.6 | +6 19 18.99 | +62.31 | +41 3 18.2 | 9.999372 |
| Ipswich (Orwell Park)[4]) . | — | +52 0 33 | +0 48 39.0 | + 7.99 | +51 49 22 | 9.999100 |
| Jena (Univers.) . . . . . | 156 | +50 55 35.6 | +0 7 14.1 | + 1.19 | +50 44 19.2 | 9.999137 |
| Jena (Winkler) . . . . . | 174 | +50 56 15.7 | +0 7 12.89 | + 1.19 | +50 44 59.4 | 9.999139 |
| Kairo . . . . . . . | — | +30 4 38.2 | —1 11 34.00 | —11.76 | +29 54 40.2 | 9.999638 |
| Kalocsa[5]) . . . . . . | 110 | +46 31 42 | —0 22 19.4 | — 3.67 | +46 20 12 | 9.999245 |
| Karlsruhe[6]) . . . . . | 110 | +49 0 29.6 | +0 19 59.40 | + 3.28 | +48 49 5.4 | 9.999183 |
| Kasan (Univers.) . . . . | 79 | +55 47 24.3 | —2 22 54.13 | —23.48 | +55 36 41.3 | 9.999014 |
| Kasan (Engelhardt) . . . | 98 | +55 50 20.0 | —2 21 41.6 | —23.28 | +55 39 37.4 | 9.999014 |
| Kew . . . . . . . . | 10 | +51 28 6 | +0 54 49.9 | + 9.01 | +51 16 52 | 9.999115 |
| Kiel Neuer Mer.-Kreis . . | 47 | +54 20 27.6 | +0 12 59.35 | + 2.13 | +54 9 32.6 | 9.999047 |
| Kiel Alter Mer.-Kreis . . | 47 | +54 20 28.5 | +0 12 59.23 | + 2.13 | +54 9 33.5 | 9.999047 |
| Kiew Mer.-Kreis . . . . | 179 | +50 27 12.5 | —1 8 25.77 | —11.24 | +50 15 53.9 | 9.999151 |
| Kis Kartal[7]) . . . . . | — | +47 41 54.8 | —0 24 36.8 | — 4.04 | +47 30 27.0 | 9.999208 |

[1]) Hr. Winkler, August 1887 nach Jena verlegt. — [2]) Seit 1853, früher Seeberg. — [3]) Dr. Draper. — [4]) Col. Tomline. — [5]) Erzbischöfl. Haynaldsche Sternwarte. — [6]) 1896 nach Heidelberg verlegt. — [7]) Baron von Podmaniczky.

| Name | Seehöhe | Geogr. Breite | Länge von Berlin + westlich | Korr. der Sternzeit | Geoz. Breite | Log. ρ incl. Seehöhe |
|---|---|---|---|---|---|---|
| | m | ° ′ ″ | h m s | s | ° ′ ″ | |
| Königsberg Reps. M.-Kr.[1]) | 22 | +54 42 50.6 | −0 28 24.18 | − 4.67 | +54 31 58.6 | 9.999036 |
| Kopenhagen (Neue Stw.)[2]) | 14 | +55 41 12.6 | +0 3 16.11 | + 0.54 | +55 30 28.7 | 9.999012 |
| Kopenhagen (Urania St.) | 10 | +55 41 19.2 | +0 3 25.69 | + 0.56 | +55 30 35.2 | 9.999012 |
| Krakau Mer.-Kreis . . . | 221 | +50 3 51.9 | −0 26 15.48 | − 4.31 | +49 52 31.6 | 9.999164 |
| Kremsmünster Mer.-Kr. | 384 | +48 3 23.1 | −0 2 56.78 | − 0.48 | +47 51 56.1 | 9.999225 |
| Landstuhl (Fauth) . . . | 385 | +49 24 42.5 | +0 23 18.45 | + 3.83 | +49 13 19.7 | 9.999191 |
| La Plata . . . . . . | — | −34 54 30 | +4 45 11.9 | +46.85 | −34 43 43 | 9.999527 |
| Leiden (Neue Stw.) Mer.-Kr.[3]) | 6 | +52 9 20.2 | +0 35 38.65 | + 5.86 | +51 58 10.4 | 9.999097 |
| Leipzig (Neue Stw.) Zentr.[4]) | 119 | +51 20 5.9 | +0 4 0.87 | + 0.66 | +51 8 52.0 | 9.999125 |
| Lemberg . . . . . . | 338 | +49 50 11 | −0 42 29 | − 6.98 | +49 38 50 | 9.999177 |
| Leyton[5]) . . . . . . | — | +51 34 34.0 | +0 53 35.7 | + 8.80 | +51 23 21.0 | 9.999111 |
| Lissabon (Neue Stw.) . . | 94 | +38 42 31.3 | +1 30 19.58 | +14.84 | +38 31 17.7 | 9.999441 |
| Lissabon (Mar. Stw.) . . | — | +38 42 17.6 | +1 30 8.4 | +14.81 | +38 31 4.0 | 9.999435 |
| Liverpool (Neue Stw.)[6]) | 61 | +53 24 3.8 | +1 5 52.0 | +10.82 | +53 13 2.0 | 9.999070 |
| London[7]) . . . . . . | — | +51 31 30 | +0 54 11.9 | + 8.90 | +51 20 17 | 9.999112 |
| Lübeck (Navig.-Sch.) . | 19 | +53 51 31.1 | +0 10 49.2 | + 1.78 | +53 40 32.5 | 9.999056 |
| Lund Zentr. d. Stw. . . | 34 | +55 41 52.0 | +0 0 49.83 | + 0.14 | +55 31 8.3 | 9.999013 |
| Lussinpiccolo[8]) . . . | — | +44 32 11 | −0 4 17.5 | − 0.70 | +44 20 40 | 9.999288 |
| Lüttich Ougrée . . . | 128 | +50 37 6 | +0 31 23 | + 5.15 | +50 25 48 | 9.999144 |
| Lyon . . . . . . . . | 299 | +45 41 40.8 | +0 34 26.8 | + 5.66 | +45 30 10.3 | 9.999279 |
| Madison (Washburn Obs.) | 293 | +43 4 36.7 | +6 51 12.70 | +67.55 | +42 53 7.8 | 9.999345 |
| Madras . . . . . . . | 7 | +13 4 8.1 | −4 27 24.53 | −43.93 | +12 59 4.8 | 9.999926 |
| Madrid Zentr. d. Stw. . . | 655 | +40 24 29.7 | +1 8 19.89 | +11.23 | +40 13 8.3 | 9.999437 |
| Mailand Gr. Turm . . . | 120 | +45 27 59.4 | +0 16 48.91 | + 2.76 | +45 16 30.1 | 9.999273 |
| Manila . . . . . . . . | — | +14 35 25 | −7 10 15 | −70.68 | +14 29 49 | 9.999909 |
| Mannheim Zentr. d. Stw. | 98 | +49 29 11.0 | +0 19 44.38 | + 3.24 | +49 17 48.5 | 9.999170 |
| Marburg . . . . . . . | 248 | +50 48 46.9 | +0 18 29.9 | + 3.04 | +50 37 30.0 | 9.999147 |
| Mare Island Calif. . . | 18 | +38 5 55.8 | +9 2 40.39 | +89.15 | +37 54 45.6 | 9.999451 |
| Markree (Col. Cooper) . | 45 | +54 10 31.7 | +1 27 23.2 | +14.36 | +53 59 35.5 | 9.999050 |
| Marseille (N. St.) M.-Kr.[9]) | 75 | +43 18 19.1 | +0 32 0.24 | + 5.26 | +43 6 49.8 | 9.999325 |
| Melbourne . . . . . . | 28 | −37 49 53.1 | −8 46 19.37 | −86.46 | −37 38 44.5 | 9.999458 |
| Meudon . . . . . . . | — | +48 48 18 | +0 44 39.3 | + 7.34 | +48 36 53 | 9.999180 |
| Mexico . . . . . . . | 2277 | +19 26 1.3 | +7 30 1.51 | +73.93 | +19 18 49.0 | 9.999995 |
| Middletown Conn. . . | — | +41 33 16.0 | +5 44 12.0 | +56.54 | +41 21 50.6 | 9.999364 |
| Modena . . . . . . . | 63 | +44 38 52.8 | +0 9 52.0 | + 1.62 | +44 27 22.2 | 9.999289 |
| Moncalieri . . . . . | — | +44 59 51 | +0 22 46 | + 3.74 | +44 48 20 | 9.999277 |
| Montreal . . . . . . | 20 | +45 30 17.0 | +5 47 53.45 | +57.15 | +45 18 46.4 | 9.999265 |

[1]) Nach 1898, vor 1898 0ˢ.01 westlich. — [2]) Seit 1861 Nov. 11. Alte Sternwarte 20″.3 südlich, 0ˢ.03 westlich. — [3]) Seit 1860. Alte Sternwarte 8″.0 nördlich, 0ˢ.42 östlich. — [4]) Seit 1861. Alte Sternwarte 14″.2 nördlich, 4ˢ.00 westlich. — [5]) J. Gurney Barclay. — [6]) Alte Sternwarte 44″.0 nördlich, 17ˢ.1 östlich. — [7]) Regents Park, G. Bishop 1836—61. — [8]) Manora-Sternwarte. — [9]) Seit 1866. Alte Sternwarte 30″.1 südlich, 6ˢ.2 westlich; 29ᵐ.

| Name | Seehöhe | Geogr. Breite | Länge von Berlin + westlich | Korr. der Sternzeit | Geoz. Breite | Log. ρ incl. Seehöhe |
|---|---|---|---|---|---|---|
| | m | ° ′ ″ | h m s | s | ° ′ ″ | |
| Mt. Hamilton (Lick) Mkr. | 1283 | +37 20 25.6 | +9 0 9.65 | +88.74 | +37 9 20.1 | 9.999556 |
| Mt. Wilson Calif. . . | 1731 | +34 12 59.5 | +8 45 49.13 | +86.27 | +34 2 18.0 | 9.999661 |
| Moskau Mer.-Kr. . . . | 142 | +55 45 19.5 | −1 36 42.23 | −15.89 | +55 34 36.2 | 9.999019 |
| Mundenheim[1]) . . . | — | +49 27 30 | +0 19 51 | + 3.26 | +49 16 7 | 9.999164 |
| München West-Kuppel | 529 | +48 8 45.5 | +0 7 8.78 | + 1.17 | +47 57 18.8 | 9.999233 |
| Nashville (Vanderbilt Obs.) | — | +36 8 58.2 | +6 40 47.61 | +65.84 | +35 58 0.9 | 9.999497 |
| Natal . . . . . . . . | 79 | −29 50 46.6 | −1 10 26.38 | −11.57 | −29 40 51.3 | 9.999648 |
| Neapel (Capo di M.) . . | 164 | +40 51 45.4 | −0 3 26.8 | − 0.57 | +40 40 22.3 | 9.999392 |
| Neuchâtel . . . . . . | 488 | +46 59 50.6 | +0 25 45.05 | + 4.23 | +46 48 21.5 | 9.999259 |
| New Haven (Neue Stw.)[2]) | — | +41 19 22.3 | +5 45 15.33 | +56.72 | +41 7 57.6 | 9.999369 |
| New York (Rutherfurd) | — | +40 43 48.5 | +5 49 31.46 | +57.42 | +40 32 25.8 | 9.999384 |
| New York (Columb. C.) | — | +40 45 23.1 | +5 49 28.53 | +57.41 | +40 34 0.3 | 9.999384 |
| Nikolajew . . . . . | 55 | +46 58 22.1 | −1 14 18.96 | −12.21 | +46 46 51.4 | 9.999230 |
| Nizza Kl. Mer.-Kr.[3]) . . | 378 | +43 43 16.9 | +0 24 22.65 | + 4.01 | +43 31 47.0 | 9.999335 |
| Northfield (Goodsell Obs.) | 286 | +44 27 41.6 | +7 6 10.8 | +70.01 | +44 16 10.6 | 9.999310 |
| Oakland Californ.[4]) . | 11 | +37 48 5 | +9 2 41.1 | +89.15 | +37 36 57 | 9.999458 |
| Odessa (Univ.-Stw.) Mer.-Kr. | 55 | +46 28 36.2 | −1 9 27.25 | −11.41 | +46 17 6.3 | 9.999243 |
| Odessa (Filiale Pulkowa) | — | +46 28 36.0 | −1 9 27.39 | −11.41 | +46 17 6.1 | 9.999239 |
| Ogden Utah . . . . . | — | +41 13 8.6 | +8 21 34.45 | +82.40 | +41 1 44.3 | 9.999372 |
| O-Gyalla (Neue Stw.)[5]) | — | +47 52 27.3 | −0 19 10.69 | − 3.15 | +47 40 59.9 | 9.999204 |
| Olmütz[6]) . . . . . . | — | +49 35 43 | −0 15 33 | − 2.55 | +49 24 21 | 9.999160 |
| Oxford (Radcl. Obs.) . . | 65 | +51 45 35.4 | +0 58 37.4 | + 9.63 | +51 34 23.4 | 9.999111 |
| Oxford (Univers.) . . . | 64 | +51 45 34.2 | +0 58 35.2 | + 9.62 | +51 34 22.2 | 9.999110 |
| Oxford Mississippi . | — | +34 22 12.6 | +6 51 41.9 | +67.63 | +34 11 29.7 | 9.999540 |
| Padua Mauer-Quadr. . . | 31 | +45 24 1.0 | +0 6 5.65 | + 1.00 | +45 12 30.4 | 9.999268 |
| Palermo . . . . . . . | 76 | +38 6 44.0 | +0 0 9.0 | + 0.02 | +37 55 33.8 | 9.999454 |
| Paramatta . . . . . | — | −33 48 49.8 | −9 10 25.4 | −90.42 | −33 38 12.0 | 9.999553 |
| Paris (Obs. nat.) Mer. Cassini | 59 | +48 50 11.2 | +0 44 13.86 | + 7.27 | +48 38 46.4 | 9.999183 |
| Paris (Montsouris) westl. Mer. | — | +48 49 18.0 | +0 44 14.10 | + 7.27 | +48 37 53.2 | 9.999180 |
| Parma (Univ.-Stw.) Turm. | — | +44 48 4.7 | +0 12 16.01 | + 2.41 | +44 36 34.1 | 9.999282 |
| Perth West.-Austr. . . | 60 | −31 57 9.6 | −6 49 46.94 | −67.32 | −31 46 50.2 | 9.999600 |
| Petersburg (Akademie) | 20 | +59 56 29.7 | −1 7 38.55 | −11.11 | +59 46 29.9 | 9.998915 |
| Petersburg (Univers.) . | 4 | +59 56 32.0 | −1 7 36.5 | −11.11 | +59 46 32.2 | 9.998914 |
| Philadelphia[7]) . . . | — | +39 57 7.5 | +5 54 13.29 | +58.19 | +39 45 47.9 | 9.999404 |
| Plonsk[8]) . . . . . . | — | +52 37 40.0 | −0 27 57.1 | − 4.59 | +52 26 33.1 | 9.999085 |
| Pola . . . . . . . . . | 32 | +44 51 48.6 | −0 1 48.16 | − 0.30 | +44 40 18.0 | 9.999282 |
| Portsmouth . . . . . | — | +50 48 3 | +0 57 59.6 | + 9.53 | +50 36 46 | 9.999130 |

[1]) Dr. Max Mündler. — [2]) Yale University. Alte Sternwarte 45″.8 südlich, 1ˢ.58 westlich. — [3]) Herr R. Bischofsheim. — [4]) Chabot Observatory. — [5]) Dr. von Konkoly. — [6]) Herr von Unkrechtsberg. [7]) Flower Obs. (Univ. of Pennsylvania). — [8]) Dr. Jedrzejewicz; 1898 nach Warschau verlegt.

| Name | Seehöhe | Geogr. Breite | Länge von Berlin + westlich | Korr. der Sternzeit | Geoz. Breite | Log. ρ incl. Seehöhe |
|---|---|---|---|---|---|---|
| | m | ° ′ ″ | h m s | s | ° ′ ″ | |
| Potsdam (Astrophys. Obs.) | 97 | +52 22 56.0 | +0 1 18.94 | + 0.22 | +52 11 47.6 | 9.999098 |
| Potsdam (Geod. Inst.) Turm | 97 | +52 22 54.8 | +0 1 18.68 | + 0.22 | +52 11 46.5 | 9.999098 |
| Poughkeepsie[1]) . . . | 46 | +41 41 18 | +5 49 8.4 | +57.36 | +41 29 52 | 9.999363 |
| Prag (Univ.-Stw.) Turm . | 197 | +50 5 16.0 | −0 4 5.49 | − 0.67 | +49 53 55.8 | 9.999161 |
| Prag (Safarik) . . . . | — | +50 4 24 | −0 4 13 | − 0.69 | +49 53 4 | 9.999148 |
| Princeton N. J. (N. Stw.)[2]) | 76 | +40 20 55.8 | +5 52 14.33 | +57.86 | +40 9 34.6 | 9.999399 |
| Providence[3]) . . . . | — | +41 49 46.4 | +5 39 12.42 | +55.72 | +41 38 20.2 | 9.999357 |
| Pulkowa Zentr. d. Stw. | 75 | +59 46 18.7 | −1 7 43.78 | −11.13 | +59 36 16.9 | 9.998922 |
| Quebec Canada . . . | — | +46 48 17.3 | +5 38 24.2 | +55.59 | +46 36 47.9 | 9.999231 |
| Quito . . . . . . . . | 2846 | − 0 14 0 | +6 8 55 | +60.60 | − 0 13 54 | 0.000194 |
| Riga (Polytechnikum) Turm | — | +56 57 7 | −0 42 53.31 | − 7.04 | +56 46 35 | 9.998981 |
| Rio de Janeiro . . . | 63 | −22 54 23.7 | +3 46 16.32 | +37.17 | −22 46 9.7 | 9.999786 |
| Rochester (Lewis Swift) | 172 | +43 9 16.8 | +6 3 56.67 | +59.78 | +42 57 47.7 | 9.999335 |
| Rom (Coll. Rom.) Mer.-Kr. | 59 | +41 53 53.6 | +0 3 39.44 | + 0.61 | +41 42 27.3 | 9.999359 |
| Rom (Capitol) Mer.-Kr. | 63 | +41 53 33.5 | +0 3 38.46 | + 0.60 | +41 42 7.2 | 9.999359 |
| Rom (Vatican) Mer.-Kr. | 100 | +41 54 16.8 | +0 3 45.52 | + 0.62 | +41 42 50.4 | 9.999362 |
| Rousdon . . . . . . | 157 | +50 42 38 | +1 5 33.7 | +10.76 | +50 31 21 | 9.999143 |
| Rugby . . . . . . | — | +52 22 7 | +0 58 36.8 | + 9.63 | +52 10 59 | 9.999091 |
| St. Louis Missouri . . | — | +38 38 3.6 | +6 54 23.95 | +68.08 | +38 26 50.4 | 9.999437 |
| San Fernando . . . | 31 | +36 27 40.4 | +1 18 24.17 | +12.88 | +36 16 40.8 | 9.999492 |
| San Francisco[4]) . . | — | +37 47 28.0 | +9 3 17.61 | +89.25 | +37 36 19.7 | 9.999457 |
| Santiago de Chile (N. St.) | 519 | −33 26 42.0 | +5 36 21.2 | +55.24 | −33 16 7.6 | 9.999596 |
| Santiago de Chile (A. St.) | 619 | −33 26 25.4 | +5 36 11.7 | +55.22 | −33 15 51.0 | 9.999603 |
| Scarborough . . . . | — | +54 16 30 | +0 55 13.7 | + 9.07 | +54 5 36 | 9.999045 |
| Schwerin . . . . . . | — | +53 37 37.9 | +0 7 54.00 | + 1.30 | +53 26 37.7 | 9.999061 |
| Seeberg[5]) . . . . . . | 356 | +50 56 5.2 | +0 10 39.75 | + 1.75 | +50 44 48.9 | 9.999151 |
| South Hadley . . . | — | +42 15 18.2 | +5 43 55.18 | +56.50 | +42 3 50.9 | 9.999346 |
| Speyer . . . . . . . | — | +49 18 55.2 | +0 19 49.29 | + 3.26 | +49 7 32.0 | 9.999168 |
| Stockholm Mer. Kreis . | 44 | +59 20 34.0 | −0 18 39.18 | − 3.06 | +59 10 27.2 | 9.998930 |
| Stonyhurst . . . . . | — | +53 50 40.0 | +1 3 27.5 | +10.42 | +53 39 41.3 | 9.999055 |
| Straſsburg (Prov. Stw.) | 161 | +48 34 54.0 | +0 22 32.43 | + 3.70 | +48 23 28.5 | 9.999197 |
| Straſsburg (N. St.). M.-Kr.[6]) | 144 | +48 35 0.2 | +0 22 30.27 | + 3.70 | +48 23 34.7 | 9.999196 |
| Sydney . . . . . . | 44 | −33 51 41.1 | −9 11 14.80 | −90.55 | −33 41 2.8 | 9.999555 |
| Tacubaya[7]) . . . . . | 2322 | +19 24 17.5 | +7 30 21.33 | +73.98 | +19 17 5.8 | 9.999999 |
| Taschkent . . . . . | 457 | +41 19 31.3 | −3 43 35.89 | −36.73 | +41 8 6.6 | 9.999400 |
| Taunton Mass. (Metcalf) | 8 | +41 54 | +5 37 55 | +55.51 | +41 43 | 9.999355 |
| Teramo (Cerulli) . . . | 398 | +42 39 27 | −0 1 21 | − 0.22 | +42 27 59 | 9.999363 |

[1]) Vassar College. — [2]) Alte Sternwarte 2″.0 nördlich, 1s.94 östlich; 65m. — [3]) Seagrave; Ladd Observatory, 35″ nördlich, 1s.57 östlich. — [4]) Davidson Observatory. — [5]) Alte Sternwarte, 1853 nach Gotha verlegt. — [6]) Seit Anfang 1881. — [7]) Seit März 1883, früher in Chapultepec.

| Name | Seehöhe | Geogr. Breite | Länge von Berlin + westlich | Korr. der Sternzeit | Geoz. Breite | Log. ρ incl. Seehöhe |
|---|---|---|---|---|---|---|
| | m | ° ′ ″ | h m s | s | ° ′ ″ | |
| Tokio | — | +35 39 17.5 | − 8 25 23.2 | − 83.02 | +35 28 24.0 | 9.999509 |
| Toronto | — | +43 39 35.9 | + 6 11 9.49 | + 60.97 | +43 28 6.1 | 9.999311 |
| Tortosa (Ebro-Stw.) M.-Kr. | — | +40 49 14 | + 0 51 36.3 | + 8.48 | +40 37 51 | 9.999382 |
| Toulouse | 194 | +43 36 45.3 | + 0 47 43.8 | + 7.84 | +43 25 15.6 | 9.999325 |
| Triest | 23 | +45 38 45.4 | − 0 1 28.10 | − 0.24 | +45 27 14.9 | 9.999262 |
| Troy N. Y. | — | +42 43 52.9 | + 5 48 19.4 | + 57.22 | +42 32 24.6 | 9.999334 |
| Tsingtau (Met.-astr. Stat.) | — | +36 4 11.3 | − 7 7 41.41 | − 70.26 | +35 53 14.6 | 9.999499 |
| Tulse Hill (W. Huggins) | 53 | +51 26 47.0 | + 0 54 2.5 | + 8.88 | +51 15 33.3 | 9.999118 |
| Turin Mer.-Kr. | 270 | +45 4 7.9 | + 0 22 47.65 | + 3.74 | +44 52 37.3 | 9.999293 |
| Twickenham (G. Bishop) | — | +51 27 4.2 | + 0 54 47.9 | + 9.00 | +51 15 50.5 | 9.999114 |
| Upsala (N. Stw.) Pass.-Instr. | 21 | +59 51 29.4 | − 0 16 55.33 | − 2.78 | +59 41 28.6 | 9.998916 |
| Urbana Jll. | — | +40 6 20.2 | + 6 46 28.77 | + 66.77 | +39 55 0.0 | 9.999400 |
| Utrecht | 12 | +52 5 9.5 | + 0 33 3.2 | + 5.43 | +51 53 59.3 | 9.999099 |
| Valkenburg (Ignatius Coll.) | — | +50 52 29.3 | + 0 30 14.89 | + 4.97 | +50 41 12.7 | 9.999128 |
| Venedig | — | +45 25 49.5 | + 0 4 10.0 | + 0.68 | +45 14 18.9 | 9.999266 |
| Warschau Zentr. d. Stw. | 110 | +52 13 5.7 | − 0 30 32.45 | − 5.02 | +52 1 56.3 | 9.999102 |
| Warschau[1]) | — | +52 13 10 | − 0 30 30 | − 5.01 | +52 2 1 | 9.999095 |
| Washington (Alte Stw.) | 31 | +38 53 38.9 | + 6 1 46.93 | + 59.43 | +38 42 24.3 | 9.999432 |
| Washington (Neue Stw.) | — | +38 55 14.0 | + 6 1 50.60 | + 59.44 | +38 44 0.1 | 9.999430 |
| Washington (kath. Univ.) | — | +38 56 14.8 | + 6 1 34.8 | + 59.40 | +38 45 0.0 | 9.999429 |
| Wellington (Mt. Cook Obs.) | 44 | −41 18 0.6 | −10 45 31.72 | −106.05 | −41 6 36.0 | 9.999373 |
| West Point N.Y. (N. Stw.)[2]) | — | +41 23 22 | + 5 49 25.4 | + 57.40 | +41 11 57 | 9.999368 |
| Whitestone (Field Obs.) | — | +40 47 21.6 | + 5 48 42.5 | + 57.28 | +40 35 58.6 | 9.999383 |
| Wien (Alte Sternw.) | 167 | +48 12 35.5 | − 0 11 56.81 | − 1.96 | +48 1 8.9 | 9.999206 |
| Wien (Josephstadt)[3]) | 214 | +48 12 53.8 | − 0 11 50.37 | − 1.94 | +48 1 27.2 | 9.999210 |
| Wien (Neue Sternw.) Zentr. | 240 | +48 13 55.4 | − 0 11 46.56 | − 1.93 | +48 2 28.9 | 9.999211 |
| Wien (Ottakring)[4]) | 285 | +48 12 46.7 | − 0 11 36.17 | − 1.91 | +48 1 20.1 | 9.999215 |
| Wien (Mil. Geogr. Inst.) | — | +48 12 40.0 | − 0 11 51.45 | − 1.95 | +48 1 13.4 | 9.999195 |
| Wien (Techn. Hochschule) | — | +48 11 58.5 | − 0 11 54.91 | − 1.96 | +48 0 31.9 | 9.999196 |
| Wilhelmshaven Mer.-Kr. | 9 | +53 31 52.1 | + 0 20 59.74 | + 3.45 | +53 20 51.2 | 9.999064 |
| Williams-Bay Wisc.[5]) | — | +42 34 12.6 | + 6 47 48.08 | + 66.99 | +42 22 44.7 | 9.999338 |
| Williamstown Mass. | — | +42 42 49 | + 5 46 28.3 | + 56.92 | +42 31 21 | 9.999335 |
| Williamstown Vict. | — | −37 52 7.2 | − 8 46 3.3 | − 86.42 | −37 40 58.4 | 9.999455 |
| Wilna Pass.-Instr. | 122 | +54 40 59.1 | − 0 47 33.96 | − 7.81 | +54 30 6.8 | 9.999043 |
| Windsor N. S. W.[6]) | 16 | −33 36 30.8 | − 9 9 45.97 | − 90.31 | −33 25 54.9 | 9.999559 |
| Zô-sè China | 100 | +31 5 48 | − 7 11 10.0 | − 70.83 | +30 55 38 | 9.999622 |
| Zürich | 470 | +47 22 40.0 | + 0 19 22.5 | + 3.18 | +47 11 11.5 | 9.999248 |

1) Dr. Jedrzejewicz; seit 1898, früher in Plonsk. — 2) Seit 1883. Alte Sternwarte 9″ nördlich, $1^s.2$ östlich. — 3) von Oppolzers Sternwarte. — 4) v. Kuffner. — 5) Yerkes Observatory. — 6) J. Tebbutt. Neue Sternwarte, 0″.4 südlich von der alten.

(1)

# Bahnelemente, Oppositionsangaben und Oppositions-Ephemeriden

der

## kleinen Planeten

für

## 1909.

| Nr. und Name | Opposition 1909 | Gr. | $m_0$ | $g$ | Epoche und Oskulation | Mittl. Äqu. | $M$ | $\omega$ |
|---|---|---|---|---|---|---|---|---|
| 1 Ceres | Juli 14 | 7.7 | 7.4 | 4.0 | 1909 Juli 29.0 | d. Ep. | 139° 48′ 51.″8 | 68° 9′ 33.″2 |
| 2 Pallas | Juni 22 | 9.2 | 8.0 | 4.5 | 1909 Juni 27.0 | d. Ep. | 130 49 39.2 | 309 1 38.9 |
| 3 Juno | Dez. 3 | 7.0 | 8.7 | 5.5 | 1909 Dez. 4.0 | d. Ep. | 8 18 12.7 | 244 28 44.3 |
| 4 Vesta | Mai 29 | 5.9 | 6.5 | 4.0 | 1857 Jan. 1.0*) | d. Ep. | 198 20 2.8 | 147 10 40.2 |
| 5 Astraea | Mai 12 | 9.8 | 9.9 | 6.9 | 1898 Sept. 11.0 | 1910.0 | 224 4 1.2 | 353 28 9.3 |
| 6 Hebe | — | — | 8.5 | 5.8 | 1900 Juli 3.0 | 1910.0 | 284 20 20.1 | 236 56 30.6 |
| 7 Iris | Mai 19 | 9.5 | 8.4 | 5.8 | 1900 Jan. 0.0*) | 1900.0 | 9 5 20.1 | 141 31 26.9 |
| 8 Flora | Nov. 19 | 7.9 | 8.9 | 6.8 | 1848 Jan. 1.0*) | d. Ep. | 35 52 49.3 | 282 38 15.6 |
| 9 Metis | — | — | 8.9 | 6.3 | 1858 Juni 30.0 | d. Ep. | 57 4 34.7 | 2 32 16.9 |
| 10 Hygiea | — | — | 9.5 | 5.4 | 1898 Dez. 20.0 | 1910.0 | 291 20 17.9 | 308 57 0.0 |
| 11 Parthenope | Dez. 9 | 9.5 | 9.3 | 6.5 | 1901 Okt. 26.0 | 1910.0 | 65 58 42.7 | 193 25 55.1 |
| 12 Victoria | Jan. 10 | 10.8 | 9.7 | 7.2 | 1851 Jan. 0.0*) | d. Ep. | 66 2 39.9 | 66 4 43.3 |
| 13 Egeria | — | — | 9.7 | 6.7 | 1850 Jan. 0.0*) | d. Ep. | 210 46 34.3 | 76 58 23.7 |
| 14 Irene | April 5 | 8.7 | 9.7 | 6.6 | 1898 Okt. 1.0 | 1910.0 | 180 47 34.9 | 92 3 45.6 |
| 15 Eunomia | — | — | 8.6 | 5.4 | 1854 Jan. 0.0*) | d. Ep. | 122 5 31.5 | 93 59 46.0 |
| 16 Psyche | Juli 27 | 9.3 | 9.6 | 5.9 | 1899 Juli 27.0 | 1910.0 | 301 1 33.0 | 226 3 57.4 |
| 17 Thetis | — | — | 10.1 | 7.3 | 1908 Okt. 29.0 | 1910.0 | 132 57 20.9 | 138 7 45.9 |
| 18 Melpomene | — | — | 9.3 | 6.9 | 1854 Jan. 0.0*) | d. Ep. | 80 4 37.0 | 225 1 41.3 |
| 19 Fortuna | Juli 20 | 9.7 | 9.8 | 7.1 | 1909 Juli 16.0 | 1910.0 | 283 29 19.9 | 179 50 56.7 |
| 20 Massalia | — | — | 9.2 | 6.5 | 1899 März 29.0 | 1910.0 | 76 24 22.5 | 253 47 7.4 |
| 21 Lutetia | Nov. 5 | 9.7 | 10.1 | 7.4 | 1853 Jan. 2.0*) | 1852.0 | 74 20 5.1 | 246 36 10.2 |
| 22 Kalliope | April 20 | 10.3 | 9.8 | 6.1 | 1898 Okt. 1.0 | 1910.0 | 96 34 37.0 | 351 57 0.4 |
| 23 Thalia | März 27 | 9.5 | 10.5 | 7.3 | 1900 Jan. 3.0 | 1910.0 | 337 2 2.1 | 56 0 12.2 |
| 24 Themis | April 25 | 10.5 | 10.8 | 6.7 | 1905 Juni 27.0 | 1900.0 | 170 16 40.3 | 105 42 2.7 |
| 25 Phocaea | Juni 20 | 9.1 | 10.5 | 7.9 | 1898 Aug. 2.0 | 1910.0 | 7 21 33.6 | 88 49 22.7 |
| 26 Proserpina | März 20 | 10.2 | 10.5 | 7.3 | 1909 März 18.0 | 1910.0 | 310 9 49.9 | 190 2 27.5 |
| 27 Euterpe | Mai 12 | 10.3 | 9.7 | 7.2 | 1873 Jan. 5.0*) | 1870.0 | 90 32 27.0 | 354 8 6.0 |
| 28 Bellona | — | — | 10.1 | 6.6 | 1908 Dez. 28.0 | 1910.0 | 336 3 47.0 | 340 49 47.2 |
| 29 Amphitrite | Nov. 12 | 8.6 | 9.0 | 6.1 | 1855 Jan. 0.0*) | 1870.0 | 198 1 40.2 | 59 42 14.8 |
| 30 Urania | Okt. 21 | 9.1 | 9.9 | 7.4 | 1890 Juni 5.0 | 1910.0 | 239 51 48.5 | 83 41 38.7 |
| 31 Euphrosyne | Aug. 18 | 11.8 | 11.0 | 6.8 | 1899 Okt. 15.0 | 1910.0 | 327 7 12.3 | 60 23 44.4 |
| 32 Pomona | — | — | 10.6 | 7.5 | 1855 Jan. 5.0*) | d. Ep. | 223 54 39.3 | 332 38 53.4 |
| 33 Polyhymnia | Jan. 6 | 12.3 | 11.8 | 8.2 | 1900 Jan. 0.0 | 1910.0 | 137 40 57.3 | 334 11 19.2 |
| 34 Circe | Aug. 9 | 12.0 | 11.5 | 8.2 | 1897 Dez. 5.0 | 1910.0 | 288 24 37.6 | 326 54 50.4 |
| 35 Leukothea | Okt. 10 | 13.2 | 12.2 | 8.3 | 1909 Okt. 4.0 | 1910.0 | 169 6 19.3 | 209 49 26.2 |
| 36 Atalante | Juni 14 | 13.0 | 12.0 | 8.6 | 1899 Mai 8.0 | 1910.0 | 179 27 12.1 | 44 26 46.7 |
| 37 Fides | April 13 | 11.0 | 10.4 | 7.2 | 1909 April 7.0 | 1910.0 | 119 22 37.0 | 59 54 14.8 |
| 38 Leda | Nov. 16 | 10.7 | 11.4 | 8.0 | 1897 Febr. 8.0 | 1910.0 | 31 52 32.7 | 166 10 19.4 |
| 39 Laetitia | Nov. 6 | 9.0 | 9.5 | 6.0 | 1897 Jan. 19.0 | 1910.0 | 111 43 50.9 | 205 28 15.6 |
| 40 Harmonia | Dez. 44 | 9.3 | 9.2 | 6.9 | 1863 Jan. 0.0*) | d. Ep. | 186 48 19.4 | 267 19 12.8 |

*) Mittlere Elemente.

| ☊ | i | φ | μ | Log. a | Autorität |
|---|---|---|---|---|---|
| 80° 43′ 37″.4 | 10° 36′ 53″.3 | 4° 26′ 5″.0 | 770″.8348 | 0.4420302 | Godward. |
| 172 54 3.8 | 34 42 30.5 | 13 49 57.9 | 769.4979 | 0.4425328 | Farley. |
| 170 49 17.2 | 13 1 24.2 | 14 53 49.0 | 813.7875 | 0.4263304 | Hind. |
| 103 23 20.1 | 7 8 6.2 | 5 6 4.4 | 977.63246 | 0.3732206 | Leveau. |
| 141 39 24.5 | 5 20 3.2 | 11 1 8.5 | 858.1895 | 0.4109489 | Farley. |
| | | | | | |
| 138 47 54.7 | 14 47 59.3 | 11 35 3.1 | 939.1860 | 0.3848366 | R. Luther. |
| 260 33 44.3 | 5 28 1.2 | 13 20 50.2 | 962.5828 | 0.3777123 | Riem. |
| 110 17 16.7 | 5 53 7.3 | 9 0 54.4 | 1086.3382 | 0.3426943 | Downing. |
| 68 31 35.2 | 5 36 0.3 | 7 5 2.4 | 962.3390 | 0.3777857 | Lesser. |
| 285 58 13.6 | 3 48 51.6 | 6 53 27.8 | 639.1669 | 0.4962615 | E. Becker. |
| | | | | | |
| 125 23 31.9 | 4 37 51.4 | 5 44 1.0 | 923.9058 | 0.3895859 | R. Luther. |
| 235 34 41.7 | 8 23 17.7 | 12 38 44.9 | 994.8347 | 0.3681705 | Brünnow. |
| 43 11 34.5 | 16 32 24.6 | 4 59 47.3 | 857.9451 | 0.4110315 | Hansen. |
| 87 5 6.2 | 9 7 32.0 | 9 20 51.3 | 851.4287 | 0.4132389 | Maywald. |
| 293 52 14.5 | 11 44 17.4 | 10 47 32.2 | 825.4550 | 0.4222087 | Schubert. |
| | | | | | |
| 150 39 24.8 | 3 4 25.9 | 7 50 18.3 | 710.5554 | 0.4656058 | Schubert. |
| 125 11 4.5 | 5 36 38.2 | 7 42 15.7 | 913.60939 | 0.3928307 | Maywald. |
| 150 3 49.7 | 10 9 16.9 | 12 34 20.2 | 1020.1198 | 0.3609036 | Schubert. |
| 211 14 22.9 | 1 32 58.9 | 9 7 45.4 | 929.85094 | 0.3877289 | Berberich. |
| 206 49 40.3 | 0 41 7.9 | 8 17 46.2 | 949.0005 | 0.3818268 | Küstner. |
| | | | | | |
| 80 27 48.5 | 3 5 9.5 | 9 19 44.6 | 933.5544 | 0.3865780 | Lesser. |
| 66 41 31.2 | 13 43 38.1 | 5 38 34.5 | 714.4288 | 0.4640317 | Berberich. |
| 67 58 18.4 | 10 13 3.3 | 13 32 59.4 | 833.5369 | 0.4193879 | Schubert. |
| 35 37 12.3 | 0 48 2.2 | 7 49 43.5 | 641.70063 | 0.4951161 | Krueger. |
| 214 22 20.9 | 21 36 40.9 | 14 39 21.4 | 954.0992 | 0.3802754 | Berberich. |
| | | | | | |
| 45 53 35.2 | 3 35 0.4 | 4 57 20.6 | 819.19997 | 0.4244111 | P. Neugebauer. |
| 93 51 20.1 | 1 35 30.4 | 10 0 56.0 | 986.6944 | 0.3705493 | Hoppe. |
| 144 41 19.5 | 9 23 13.8 | 8 42 31.8 | 766.96465 | 0.4434875 | v. d. Groeben. |
| 356 40 46.5 | 6 7 4.6 | 4 15 25.3 | 869.0352 | 0.4073128 | E. Becker. |
| 308 25 1.9 | 2 6 2.7 | 7 21 5.1 | 975.3144 | 0.3739080 | Günther. |
| | | | | | |
| 31 53 23.2 | 26 28 7.0 | 12 52 34.7 | 635.0803 | 0.4981187 | Schubert. |
| 220 42 55.2 | 5 28 49.9 | 4 45 43.1 | 852.5880 | 0.4128449 | Lesser. |
| 9 15 35.3 | 1 55 20.3 | 19 41 13.8 | 731.7057 | 0.4571134 | Newcomb. |
| 184 58 12.9 | 5 27 21.7 | 6 4 35.9 | 805.6011 | 0.4292575 | Auwers. |
| 355 10 6.5 | 8 4 45.4 | 12 48 36.9 | 683.62036 | 0.4767944 | Tietjen. |
| | | | | | |
| 359 15 7.6 | 18 39 44.0 | 17 26 19.0 | 777.3458 | 0.4395950 | Schubert. |
| 7 56 18.3 | 3 6 14.9 | 10 9 29.5 | 826.35794 | 0.4218923 | R. Luther. |
| 296 37 59.5 | 6 57 55.1 | 8 53 45.4 | 781.8518 | 0.4379215 | Berberich. |
| 157 33 8.6 | 10 22 6.9 | 6 23 16.8 | 769.6407 | 0.4424791 | Tietjen. |
| 93 34 54.2 | 4 15 48.4 | 2 40 13.6 | 1039.3353 | 0.3555006 | Schubert. |

| Nr. und Name | Opposition 1909 | Gr. | $m_0$ | $g$ | Epoche und Oskulation | Mittl. Äqu. | $M$ | $\omega$ |
|---|---|---|---|---|---|---|---|---|
| 41 Daphne | Nov. 21 | 11.7 | 10.5 | 7.0 | 1897 Okt. 6.0 | 1910.0 | 338° 8′ 41.4″ | 41° 50′ 23.8″ |
| 42 Isis | April 9 | 10.9 | 10.4 | 7.7 | 1909 März 18.0 | 1910.0 | 254 0 11.7 | 234 50 33.2 |
| 43 Ariadne | Febr. 22 | 10.5 | 10.0 | 7.9 | 1897 Okt. 6.0 | 1910.0 | 80 15 48.4 | 13 58 23.0 |
| 44 Nysa | Jan. 10 | 8.8 | 9.8 | 7.1 | 1891 April 1.0 | 1910.0 | 101 29 32.1 | 340 33 5.3 |
| 45 Eugenia | — | — | 10.7 | 7.3 | 1890 Nov. 12.0 | 1910.0 | 180 7 31.7 | 82 43 5.7 |
| 46 Hestia | Juni 29 | 10.2 | 10.6 | 7.7 | 1909 Juni 26.0 | 1910.0 | 300 18 17.8 | 173 12 57.4 |
| 47 Aglaja | März 11 | 11.7 | 11.2 | 7.5 | 1909 Febr. 26.0 | 1910.0 | 221 54 32.0 | 311 20 11.0 |
| 48 Doris | Jan. 18 | 10.6 | 10.9 | 6.8 | 1890 Sept. 13.0 | 1910.0 | 277 3 7.4 | 251 36 27.2 |
| 49 Pales | März 26 | 12.0 | 11.0 | 7.0 | 1898 März 15.0 | 1910.0 | 133 1 8.6 | 104 17 27.1 |
| 50 Virginia | Dez. 6 | 10.5 | 11.7 | 8.5 | 1890 April 6.0 | 1910.0 | 193 9 42.2 | 196 47 34.7 |
| 51 Nemausa | März 26 | 9.4 | 9.8 | 7.3 | 1889 Nov. 17.0 | 1910.0 | 254 26 43.1 | 358 30 22.4 |
| 52 Europa | Juli 21 | 10.8 | 10.3 | 6.2 | 1891 April 1.0 | 1910.0 | 65 39 33.0 | 335 59 4.0 |
| 53 Kalypso | April 9 | 11.6 | 11.5 | 8.4 | 1909 März 18.0 | 1910.0 | 74 34 37.9 | 310 54 24.8 |
| 54 Alexandra | — | — | 10.9 | 7.6 | 1884 Aug. 15.0 | 1910.0 | 316 55 13.5 | 341 53 36.7 |
| 55 Pandora | Dez. 20 | 10.6 | 10.8 | 7.4 | 1885 Jan. 22.0 | 1910.0 | 263 33 12.6 | 0 46 56.4 |
| 56 Melete | — | — | 11.3 | 8.2 | 1900 Dez. 30.0 | 1910.0 | 157 16 2.5 | 101 6 0.1 |
| 57 Mnemosyne | Aug. 20 | 10.5 | 10.7 | 6.5 | 1909 Aug. 25.0 | 1910.0 | 296 46 44.7 | 207 26 31.4 |
| 58 Concordia | April 15 | 11.3 | 11.6 | 8.3 | 1865 Jan. 7.0*) | d. Ep. | 21 24 4.2 | 27 50 14.7 |
| 59 Elpis | Sept. 6 | 10.3 | 10.9 | 7.6 | 1865 Jan. 7.0 | 1910.0 | 334 18 57.1 | 207 58 24.0 |
| 60 Echo | — | — | 11.1 | 8.5 | 1897 Okt. 6.0 | 1910.0 | 272 15 22.3 | 267 57 40.8 |
| 61 Danaë | Febr. 5 | 11.5 | 11.0 | 7.1 | 1900 April 14.0 | 1910.0 | 244 20 50.4 | 8 27 28.4 |
| 62 Erato | Juli 14 | 12.6 | 12.3 | 8.2 | 1877 Sept. 21.0 | 1910.0 | 358 43 44.3 | 273 18 12.0 |
| 63 Ausonia | Febr. 9 | 10.3 | 9.9 | 7.3 | 1898 Febr. 3.0 | 1910.0 | 250 44 8.5 | 292 55 12.7 |
| 64 Angelina | Febr. 3 | 9.7 | 10.5 | 7.2 | 1898 Okt. 1.0 | 1910.0 | 239 38 51.2 | 173 35 10.2 |
| 65 Cybele | Dez. 6 | 11.5 | 11.0 | 6.4 | 1909 Dez. 23.0 | 1910.0 | 181 16 46.7 | 95 55 15.9 |
| 66 Maja | Mai 13 | 13.1 | 12.2 | 9.0 | 1897 Juli 18.0 | 1910.0 | 277 24 16.1 | 40 10 30.9 |
| 67 Asia | Jan. 30 | 12.2 | 11.2 | 8.5 | 1897 Dez. 5.0 | 1910.0 | 201 20 50.1 | 103 20 15.8 |
| 68 Leto | Nov. 23 | 10.0 | 10.5 | 7.0 | 1909 Dez. 3.0 | 1910.0 | 57 44 59.8 | 301 23 56.8 |
| 69 Hesperia | Juli 12 | 11.5 | 10.7 | 6.8 | 1889 Jan. 1.0 | 1910.0 | 182 52 57.9 | 284 43 32.6 |
| 70 Panopaea | Dez. 7 | 11.5 | 10.9 | 7.8 | 1890 Dez. 22.0 | 1910.0 | 305 21 16.5 | 252 49 41.9 |
| 71 Niobe | — | — | 10.7 | 7.3 | 1908 Dez. 8.0 | 1910.0 | 216 3 59.7 | 265 23 10.6 |
| 72 Feronia | April 28 | 11.1 | 11.2 | 8.9 | 1897 Dez. 25.0 | 1910.0 | 166 4 16.3 | 100 27 8.7 |
| 73 Klytia | — | — | 12.0 | 8.8 | 1898 Aug. 2.0 | 1910.0 | 244 29 53.1 | 52 42 38.5 |
| 74 Galatea | Dez. 31 | 11.5 | 11.8 | 8.3 | 1897 Febr. 28.0 | 1910.0 | 148 4 45.2 | 170 59 36.6 |
| 75 Eurydike | April 11 | 12.4 | 11.6 | 8.4 | 1897 Okt. 26.0 | 1910.0 | 32 23 13.9 | 335 34 7.7 |
| 76 Freia | April 10 | 12.2 | 12.0 | 7.4 | 1909 April 27.0 | 1910.0 | 96 19 19.2 | 235 47 29.4 |
| 77 Frigga | Juni 19 | 11.7 | 11.1 | 7.9 | 1897 Okt. 6.0 | 1910.0 | 331 13 52.7 | 56 51 43.2 |
| 78 Diana | — | — | 10.6 | 7.5 | 1907 Aug. 16.0 | 1910.0 | 206 4 36.9 | 149 44 7.9 |
| 79 Eurynome | Nov. 6 | 9.3 | 10.5 | 7.8 | 1909 Okt. 24.0 | 1910.0 | 355 23 9.4 | 198 33 28.9 |
| 80 Sappho | April 26 | 11.2 | 10.6 | 8.2 | 1896 Okt. 11.0 | 1910.0 | 19 11 20.2 | 136 54 7.7 |

*) Mittlere Elemente.

| ☊ | i | φ | μ | Log. a | Autorität |
|---|---|---|---|---|---|
| 179° 2′ 48.″7 | 15° 55′ 33.″5 | 15° 26′ 36.″4 | 770.″4586 | 0.4421715 | Berberich. |
| 84 19 2.0 | 8 32 57.8 | 12 47 10.0 | 928.93045 | 0.3880156 | L. Becker. |
| 264 53 57.0 | 3 27 42.6 | 9 38 32.6 | 1084.7577 | 0.3431159 | Prey. |
| 131 22 43.4 | 3 42 0.7 | 8 48 10.9 | 941.7363 | 0.3840515 | Powalky. |
| 148 15 53.9 | 6 35 18.5 | 4 44 11.6 | 791.0695 | 0.4345280 | Richter. |
| 181 21 13.4 | 2 17 39.3 | 9 37 42.2 | 884.53988 | 0.4021928 | Karlinski. |
| 3 54 8.8 | 5 0 32.1 | 7 26 15.2 | 724.16389 | 0.4601132 | P. Neugebauer. |
| 184 50 59.0 | 6 30 23.4 | 3 30 16.7 | 645.5014 | 0.4934063 | Powalky. |
| 289 50 20.8 | 3 8 28.3 | 12 52 28.4 | 648.4530 | 0.4920854 | Powalky. |
| 173 55 41.5 | 2 48 27.0 | 16 45 58.0 | 823.5561 | 0.4228757 | Powalky. |
| 176 1 8.9 | 9 57 11.5 | 3 51 23.3 | 975.1593 | 0.3739540 | Berberich. |
| 129 57 19.4 | 7 26 14.9 | 6 31 44.8 | 651.8134 | 0.4905889 | Murmann. |
| 143 54 8.2 | 5 8 11.1 | 11 49 19.6 | 837.41565 | 0.4180433 | Tietjen. |
| 314 2 22.8 | 11 47 37.5 | 11 31 49.2 | 795.5362 | 0.4328978 | Schultz. |
| 11 13 41.5 | 7 13 26.0 | 8 18 56.3 | 774.4612 | 0.4406713 | A. Moeller. |
| 194 10 59.0 | 8 3 9.4 | 13 24 5.5 | 846.1114 | 0.4150527 | R. Luther. |
| 200 4 29.4 | 15 11 45.3 | 6 40 56.2 | 634.28823 | 0.4984801 | Adolph. |
| 161 19 50.3 | 5 1 50.5 | 2 26 21.8 | 799.5964 | 0.4314238 | Oppolzer. |
| 170 58 0.1 | 8 36 53.1 | 6 44 2.7 | 793.9788 | 0.4334651 | Oppolzer. |
| 192 2 8.5 | 3 35 2.2 | 10 34 22.7 | 958.2244 | 0.3790263 | C. H. F. Peters. |
| 334 23 28.2 | 18 15 3.1 | 9 29 23.8 | 688.3554 | 0.4747959 | R. Luther. |
| 126 6 30.1 | 2 12 15.4 | 10 6 47.4 | 642.5659 | 0.4947260 | Oppolzer. |
| 338 6 39.1 | 5 47 15.9 | 7 17 58.7 | 957.1671 | 0.3793459 | Tietjen. |
| 311 1 40.8 | 1 19 37.6 | 7 17 59.7 | 807.9036 | 0.4284314 | Oppolzer. |
| 158 50 52.9 | 3 28 52.3 | 5 45 43.0 | 557.40783 | 0.5358890 | Fritsche. |
| 8 25 31.5 | 3 5 3.2 | 10 3 43.4 | 824.3940 | 0.422582 | Maywald. |
| 203 4 10.5 | 5 59 10.5 | 10 47 54.5 | 942.3560 | 0.3838611 | Frischauf. |
| 44 46 7.6 | 7 58 30.2 | 10 46 18.5 | 765.06274 | 0.4442064 | Th. Wolff. |
| 186 49 25.9 | 8 29 47.6 | 9 39 2.0 | 689.6731 | 0.4742422 | Kowalczyk. |
| 48 23 54.9 | 11 38 23.5 | 10 22 15.9 | 838.9960 | 0.4174978 | Richter. |
| 316 25 26.2 | 23 17 9.1 | 10 10 32.1 | 776.74991 | 0.4398169 | P. Neugebauer. |
| 208 2 57.2 | 5 23 52.3 | 6 56 42.6 | 1040.3544 | 0.3552169 | C. H. F. Peters. |
| 7 43 24.2 | 2 24 17.7 | 2 34 3.9 | 816.0117 | 0.4255401 | Powalky. |
| 197 53 4.9 | 4 0 22.1 | 13 43 0.6 | 764.6230 | 0.4443728 | Maywald. |
| 0 6 45.0 | 4 59 55.9 | 17 45 42.2 | 812.4299 | 0.4268137 | Stockwell. |
| 212 3 21.0 | 2 3 1.9 | 9 56 32.7 | 563.79102 | 0.5325923 | Murmann. |
| 2 12 17.7 | 2 27 34.5 | 7 38 43.5 | 813.8298 | 0.4263153 | Plath. |
| 333 52 20.2 | 8 40 20.6 | 11 51 36.2 | 835.7718 | 0.4186116 | v. Dubjago. |
| 206 38 56.0 | 4 35 54.5 | 11 0 38.4 | 928.22578 | 0.3882353 | Lachmann. |
| 218 49 35.1 | 8 37 17.6 | 11 34 29.9 | 1020.1089 | 0.3609067 | P. V. Neugebauer. |

| Nr. und Name | Opposition 1909 | Gr. | $m_0$ | $g$ | Epoche und Oskulation | Mittl. Äqu. | $M$ | $\omega$ |
|---|---|---|---|---|---|---|---|---|
| 81 Terpsichore | Jan. 6 | 11.0 | 11.8 | 8.2 | 1897 Juli 18.0 | 1910.0 | 260° 37′ 9.″1 | 46° 14′ 50.″5 |
| 82 Alkmene . . | Sept. 4 | 12.1 | 11.2 | 7.8 | 1909 Sept. 14.0 | 1910.0 | 223 43 47.4 | 106 40 20.5 |
| 83 Beatrix . . . | — | — | 11.3 | 8.6 | 1891 Jan. 11.0 | 1910.0 | 295 16 6.4 | 163 24 40.4 |
| 84 Klio . . . . | Nov. 28 | 11.0 | 11.3 | 8.8 | 1909 Dez. 3.0 | 1910.0 | 61 50 37.7 | 12 46 28.4 |
| 85 Io . . . . . | Dez. 31 | 11.6 | 10.9 | 7.7 | 1889 Febr. 10.0 | 1910.0 | 180 9 35.1 | 120 16 17.9 |
| 86 Semele . . . | Nov. 19 | 11.1 | 12.4 | 8.3 | 1896 Mai 4.0 | 1910.0 | 203 38 25.9 | 300 25 58.4 |
| 87 Sylvia . . . | — | — | 11.9 | 7.2 | 1898 April 24.0 | 1910.0 | 236 42 47.7 | 265 34 33.5 |
| 88 Thisbe . . . | Dez. 41 | 11.6 | 10.8 | 7.4 | 1889 Dez. 27.0 | 1910.0 | 24 33 30.8 | 30 50 45.1 |
| 89 Julia . . . . | Febr. 4 | 10.8 | 10.1 | 7.1 | 1889 Dez. 27.0 | 1910.0 | 237 15 2.3 | 42 50 18.7 |
| 90 Antiope . . | März 30 | 11.9 | 11.6 | 7.5 | 1909 März 18.0 | 1910.0 | 255 44 38.1 | 236 35 15.0 |
| 91 Aegina . . . | — | — | 10.8 | 7.7 | 1897 Febr. 8.0 | 1910.0 | 54 32 6.9 | 71 55 32.8 |
| 92 Undina . . . | — | — | 10.9 | 6.7 | 1904 Febr. 13.0 | 1910.0 | 142 28 50.2 | 220 34 12.4 |
| 93 Minerva . . | Nov. 30 | 11.5 | 10.8 | 7.4 | 1897 Jan. 19.0 | 1910.0 | 213 22 8.2 | 270 52 4.5 |
| 94 Aurora . . . | Febr. 25 | 11.4 | 11.3 | 7.1 | 1883 Juli 12.0 | 1910.0 | 256 3 4.3 | 45 22 37.9 |
| 95 Arethusa . . | Juli 25 | 11.1 | 11.3 | 7.3 | 1909 Aug. 5.0 | 1910.0 | 292 18 15.1 | 148 34 34.4 |
| 96 Aegle . . . | Dez. 3 | 11.4 | 11.4 | 7.4 | 1897 Sept. 16.0 | 1910.0 | 182 59 36.0 | 200 34 30.1 |
| 97 Klotho . . . | Juli 12 | 11.4 | 10.6 | 7.4 | 1898 Jan. 14.0 | 1910.0 | 21 4 31.9 | 264 36 8.8 |
| 98 Ianthe . . . | Aug. 15 | 12.5 | 12.7 | 9.4 | 1894 Jan. 15.0 | 1910.0 | 331 2 34.3 | 154 49 36.4 |
| 99 Dike . . . . | — | — | 14 | 10.5 | 1868 Juni 5.0 | 1910.0 | 350 36 11 | 198 52 56 |
| 100 Hekate . . . | Jan. 15 | 12.6 | 11.9 | 7.8 | 1898 Jan. 14.0 | 1910.0 | 156 19 38.0 | 176 49 53.2 |
| 101 Helena . . . | Juni 18 | 10.2 | 10.7 | 7.6 | 1897 Aug. 27.0 | 1910.0 | 8 56 38.1 | 343 58 24.2 |
| 102 Miriam . . . | Jan. 31 | 13.4 | 12.6 | 9.4 | 1898 Juli 13.0 | 1910.0 | 319 11 42.8 | 143 38 29.9 |
| 103 Hera . . . . | Dez. 38 | 10.6 | 10.2 | 6.9 | 1897 Febr. 8.0 | 1910.0 | 173 11 18.9 | 185 58 53.7 |
| 104 Klymene . . | — | — | 12.2 | 8.0 | 1897 Dez. 25.0 | 1910.0 | 35 9 54.6 | 20 0 49.1 |
| 105 Artemis . . | Dez. 9 | 12.1 | 11.1 | 8.5 | 1897 Aug. 27.0 | 1910.0 | 69 55 41.8 | 54 43 26.1 |
| 106 Dione . . . | — | — | 11.3 | 7.2 | 1908 Dez. 8.0 | 1910.0 | 32 9 12.9 | 324 38 32.4 |
| 107 Camilla . . . | Jan. 3 | 10.9 | 11.2 | 6.5 | 1891 April 21.0 | 1910.0 | 97 7 57.4 | 293 57 59.6 |
| 108 Hecuba . . . | März 5 | 11.1 | 11.7 | 7.4 | 1909 März 18.0 | 1910.0 | 1 9 47.6 | 173 2 24.9 |
| 109 Felicitas . . | Nov. 5 | 9.9 | 12.0 | 8.7 | 1898 Jan. 14.0 | 1910.0 | 115 33 32.5 | 52 23 6.6 |
| 110 Lydia . . . | — | — | 10.5 | 7.1 | 1901 Febr. 13.0 | 1910.0 | 150 32 10.1 | 281 13 26.2 |
| 111 Ate . . . . . | — | — | 11.3 | 8.2 | 1890 Jan. 16.0 | 1910.0 | 91 26 4.4 | 163 34 48.8 |
| 112 Iphigenia . | — | — | 11.5 | 8.8 | 1897 Dez. 25.0 | 1910.0 | 88 12 11.4 | 14 7 51.7 |
| 113 Amalthea . | Okt. 6 | 11.5 | 11.0 | 8.4 | 1909 Okt. 14.0 | 1910.0 | 172 4 6.4 | 76 27 40.8 |
| 114 Kassandra . | März 11 | 11.2 | 11.1 | 7.8 | 1889 Sept. 18.0 | 1910.0 | 211 30 3.4 | 348 48 30.0 |
| 115 Thyra . . . | — | — | 10.4 | 7.8 | 1897 Okt. 6.0 | 1910.0 | 340 57 26.1 | 94 2 38.0 |
| 116 Sirona . . . | Dez. 42 | 10.1 | 10.7 | 7.3 | 1889 Juni 10.0 | 1910.0 | 158 3 13.7 | 89 6 38.1 |
| 117 Lomia . . . | — | — | 11.4 | 7.5 | 1897 Okt. 6.0 | 1910.0 | 332 35 55.4 | 48 38 20.1 |
| 118 Peitho . . . | — | — | 10.8 | 8.1 | 1908 Aug. 30.0 | 1910.0 | 287 15 9.7 | 31 3 39.0 |
| 119 Althaea . . | März 10 | 11.0 | 10.6 | 7.5 | 1898 Aug. 2.0 | 1910.0 | 314 33 34.0 | 168 34 50.1 |
| 120 Lachesis . . | — | — | 11.7 | 7.6 | 1897 Nov. 15.0 | 1910.0 | 202 19 20.3 | 238 31 10.8 |

| ☊ | i | φ | μ | Log. a | Autorität |
|---|---|---|---|---|---|
| ° ′ ″ | ° ′ ″ | ° ′ ″ | ″ | | |
| 2 34 20.8 | 7 55 5.5 | 12 11 52.3 | 736.4126 | 0.4552569 | Maywald. |
| 20 34 36.2 | 2 51 3.0 | 12 44 53.9 | 772.06915 | 0.4415669 | W. Luther. |
| 27 47 22.4 | 4 59 49.4 | 4 51 24.3 | 935.9122 | 0.3858476 | E. Becker. |
| 327 32 45.5 | 9 22 2.8 | 13 44 27.0 | 977.82672 | 0.3731631 | P. Neugebauer. |
| 203 55 21.1 | 11 53 47.5 | 11 10 33.7 | 821.0524 | 0.4237571 | v. d. Groeben. |
| 88 2 1.0 | 4 47 35.9 | 12 46 53.6 | 650.4530 | 0.4911939 | Riem. |
| 75 15 57.6 | 10 53 1.7 | 5 26 44.5 | 545.3288 | 0.5422321 | v. d. Groeben. |
| 277 51 59.5 | 5 14 54.8 | 9 26 6.4 | 771.1774 | 0.4419015 | Kowalczyk. |
| 312 0 55.5 | 16 12 32.0 | 10 33 29.3 | 871.5645 | 0.4064714 | Th. Wolff. |
| 70 50 25.8 | 2 15 26.0 | 8 49 16.8 | 632.00534 | 0.4995240 | Maywald. |
| 11 4 13.0 | 2 8 25.1 | 6 7 10.0 | 850.8763 | 0.4134268 | Heuer. |
| 102 50 42.0 | 9 56 23.7 | 5 22 41.6 | 622.67957 | 0.5038280 | Anderson. |
| 5 4 31.2 | 8 35 28.0 | 8 1 55.7 | 775.6316 | 0.4402341 | P. Lehmann. |
| 4 33 17.4 | 8 4 18.6 | 4 44 18.3 | 630.6584 | 0.5001416 | Leppig. |
| 244 6 10.7 | 12 55 40.8 | 8 53 21.8 | 661.15009 | 0.4864707 | Schur. |
| 322 47 10.3 | 16 2 24.5 | 7 39 35.3 | 663.1502 | 0.4855965 | Schulhof. |
| 160 57 9.4 | 11 45 29.3 | 14 51 9.7 | 813.5778 | 0.4264050 | Maywald. |
| 354 27 5.1 | 15 33 47.6 | 10 49 11.3 | 805.3086 | 0.4293629 | Riem. |
| 42 17 51 | 13 53 30 | 13 47 30 | 758.662 | 0.44664 | Loewy u. Tisserand. |
| 128 26 39.4 | 6 23 7.5 | 9 31 58.5 | 653.5823 | 0.4898043 | Stark. |
| 343 42 52.6 | 10 10 32.8 | 8 1 10.2 | 854.8620 | 0.4120737 | v. d. Groeben. |
| 211 39 13.0 | 5 5 24.5 | 14 44 31.2 | 817.8380 | 0.4248929 | C. H. F. Peters. |
| 136 26 1.5 | 5 24 33.0 | 4 30 21.3 | 798.0990 | 0.4319665 | Leveau. |
| 43 13 29.2 | 2 52 54.6 | 8 32 48.6 | 632.5948 | 0.4992540 | Berberich. |
| 188 14 55.0 | 21 30 55.0 | 10 6 59.0 | 970.4600 | 0.3753527 | A. Leman. |
| 63 11 54.2 | 4 35 56.7 | 9 15 9.7 | 625.77294 | 0.5023933 | Berberich. |
| 176 14 1.0 | 9 51 39.6 | 3 56 39.0 | 544.1827 | 0.5428412 | Matthiessen. |
| 352 28 1.2 | 4 23 39.9 | 6 5 27.3 | 616.79179 | 0.5065787 | Schulhof. |
| 4 42 21.8 | 8 1 1.3 | 17 12 53.0 | 799.9088 | 0.4313108 | v. d. Groeben. |
| 57 14 3.9 | 5 59 12.9 | 4 32 38.7 | 785.37505 | 0.436620 | Sternberg. |
| 306 39 51.1 | 4 56 20.2 | 5 58 35.2 | 849.9712 | 0.4137349 | Holetschek. |
| 324 13 23.0 | 2 37 9.3 | 7 25 29.0 | 934.8048 | 0.3861905 | Tietjen. |
| 123 18 53.2 | 5 2 17.0 | 4 59 57.1 | 968.69199 | 0.3758806 | W. Luther. |
| 164 40 55.6 | 4 53 53.8 | 7 55 32.6 | 810.5220 | 0.4274945 | Anton. |
| 309 19 50.6 | 11 35 36.3 | 11 5 7.8 | 966.3219 | 0.3765898 | Watson. |
| 64 42 11.5 | 3 35 10.3 | 8 3 59.9 | 770.3736 | 0.442203 | H. Oppenheim. |
| 349 41 19.0 | 14 56 21.2 | 1 31 51.9 | 685.2178 | 0.4761187 | Tietjen. |
| 47 41 18.0 | 7 46 26.8 | 9 23 3.0 | 932.31865 | 0.3869615 | Holetschek. |
| 203 58 4.8 | 5 44 15.8 | 4 42 49.9 | 855.7364 | 0.4117777 | Berberich. |
| 342 45 48.8 | 7 0 16.6 | 3 30 1.0 | 645.4399 | 0.4934339 | Plath. |

| Nr. und Name | Opposition 1909 | Gr. | $m_0$ | $g$ | Epoche und Oskulation | Mittl. Äqu. | $M$ | $\omega$ |
|---|---|---|---|---|---|---|---|---|
| 121 Hermione . . | März 9 | 11.9 | 11.2 | 6.6 | 1909 März 18.0 | 1910.0 | 162° 27′ 2.2″ | 283° 58′ 22.2″ |
| 122 Gerda . . . . | — | — | 11.5 | 7.2 | 1908 Okt. 29.0 | 1910.0 | 226 22 55.3 | 11 59 50.3 |
| 123 Brunhild . . | — | — | 11.8 | 8.5 | 1898 Juni 23.0 | 1910.0 | 210 35 25.0 | 122 14 17.2 |
| 124 Alkeste . . . | Febr. 26 | 10.2 | 10.3 | 7.1 | 1890 Dez. 2.0 | 1910.0 | 180 26 7.9 | 58 14 32.3 |
| 125 Liberatrix. . | Nov. 23 | 11.6 | 11.2 | 7.8 | 1897 Jan. 19.0 | 1910.0 | 202 46 5.6 | 104 32 55.5 |
| 126 Velleda . . . | Mai 8 | 11.8 | 11.5 | 8.8 | 1899 Dez. 15.0 | 1910.0 | 81 58 56.5 | 325 47 25.0 |
| 127 Johanna . . | Dez. 10 | 10.3 | 10.5 | 7.1 | 1890 Okt. 3.0 | 1910.0 | 251 23 46.9 | 90 26 21.5 |
| 128 Nemesis . . | — | — | 10.6 | 7.2 | 1897 Jan. 19.0 | 1910.0 | 144 20 2.3 | 300 34 0.1 |
| 129 Antigone . . | Okt. 14 | 10.9 | 10.3 | 6.6 | 1897 Jan. 19.0 | 1910.0 | 253 10 0.2 | 103 42 26.3 |
| 130 Elektra . . . | Sept. 20 | 9.4 | 10.6 | 6.5 | 1898 Aug. 22.0 | 1910.0 | 337 5 55.3 | 233 46 1.6 |
| 131 Vala . . . . | — | — | 12.2 | 9.5 | 1898 Dez. 20.0 | 1910.0 | 288 37 28.9 | 155 56 24.1 |
| 132 Aethra . . . | — | — | 10.9 | 8.0 | 1895 Nov. 30.5 | 1910.0 | 330 47 37.2 | 252 14 56.3 |
| 133 Cyrene . . . | März 22 | 10.8 | 11.3 | 7.3 | 1898 Jan. 14.0 | 1910.0 | 280 4 53.4 | 283 57 33.7 |
| 134 Sophrosyne . | Juni 14 | 11.7 | 11.1 | 8.1 | 1909 Juni 26.0 | 1910.0 | 201 50 16.6 | 82 22 16.9 |
| 135 Hertha . . . | Juli 8 | 9.2 | 10.5 | 7.8 | 1898 Okt. 1.0 | 1910.0 | 33 3 56.2 | 337 7 56.5 |
| 136 Austria . . . | Mai 26 | 11.1 | 11.2 | 8.9 | 1898 März 15.0 | 1910.0 | 211 14 20.2 | 130 28 54.5 |
| 137 Meliboea . . | Nov. 20 | 11.9 | 11.8 | 7.7 | 1898 Nov. 10.0 | 1910.0 | 80 12 0.8 | 105 35 51.7 |
| 138 Tolosa . . . | Sept. 9 | 12.9 | 11.8 | 9.1 | 1896 Febr. 14.0 | 1910.0 | 190 23 49.0 | 258 3 38.4 |
| 139 Juewa. . . . | April 2 | 9.9 | 10.9 | 7.4 | 1898 Nov. 30.0 | 1910.0 | 299 0 11.9 | 162 8 50.0 |
| 140 Siwa . . . . | April 23 | 11.0 | 11.4 | 8.0 | 1898 Okt. 1.0 | 1910.0 | 173 35 23.3 | 193 12 17.2 |
| 141 Lumen . . . | — | — | 11.4 | 8.2 | 1890 Aug. 24.0 | 1910.0 | 321 2 54.7 | 54 13 35.4 |
| 142 Polana . . . | Febr. 12 | 11.8 | 12.2 | 9.5 | 1896 Dez. 10.0 | 1910.0 | 211 12 47.7 | 289 58 40.0 |
| 143 Adria . . . . | Sept. 16 | 12.7 | 12.4 | 9.0 | 1891 Okt. 18.0 | 1910.0 | 160 45 41.3 | 248 47 46.1 |
| 144 Vibilia . . . | April 22 | 11.7 | 10.7 | 7.5 | 1888 Juli 18.0 | 1910.0 | 289 54 28.9 | 290 45 10.7 |
| 145 Adeona . . . | Febr. 28 | 10.7 | 11.3 | 8.1 | 1898 Aug. 22.0 | 1910.0 | 240 12 41.7 | 40 33 3.5 |
| 146 Lucina . . . | — | — | 11.1 | 7.7 | 1898 Aug. 2.0 | 1910.0 | 89 1 10.2 | 140 57 36.7 |
| 147 Protogeneia . | Sept. 19 | 12.3 | 12.5 | 8.4 | 1898 Sept. 11.0 | 1910.0 | 348 52 58.8 | 122 45 45.6 |
| 148 Gallia . . . . | — | — | 11.0 | 7.5 | 1908 Dez. 8.0 | 1910.0 | 32 58 3.8 | 250 39 34.7 |
| 149 Medusa . . . | Febr. 28 | 12.2 | 12.9 | 10.0 | 1909 Febr. 26.0 | 1910.0 | 102 55 42.6 | 250 0 38.9 |
| 150 Nuwa . . . . | März 30 | 12.2 | 11.6 | 7.7 | 1893 März 1.0 | 1910.0 | 155 36 25.8 | 146 41 42.7 |
| 151 Abundantia | — | — | 11.9 | 8.8 | 1898 März 15.0 | 1910.0 | 9 18 20.9 | 130 21 2.4 |
| 152 Atala . . . . | Dez. 31 | 11.9 | 12.2 | 8.1 | 1899 Jan. 29.0 | 1910.0 | 27 31 7.9 | 42 37 0.7 |
| 153 Hilda . . . . | Jan. 4 | 13.4 | 12.6 | 7.3 | 1909 Jan. 17.0 | 1910.0 | 184 6 29.9 | 55 6 32.4 |
| 154 Bertha . . . | Okt. 23 | 11.6 | 11.2 | 7.0 | 1909 Nov. 13.0 | 1910.0 | 191 9 47.2 | 164 24 37.5 |
| 155 Scylla . . . . | — | — | 13.5 | 9.8 | 1875 Nov. 8.5 | 1910.0 | 339 4 47 | 39 9 57 |
| 156 Xanthippe . | März 24 | 10.0 | 11.3 | 7.9 | 1903 Jan. 29.0 | 1900.0 | 210 16 9.4 | 334 33 43.4 |
| 157 Dejanira . . | — | — | 13.7 | 10.6 | 1904 Nov. 17.5 | 1904.0 | 330 35 43.9 | 45 39 12.1 |
| 158 Koronis . . . | Dez. 38 | 12.1 | 12.3 | 8.7 | 1898 Aug. 22.0 | 1910.0 | 278 50 53.8 | 138 43 15.9 |
| 159 Aemilia . . . | — | — | 12.3 | 8.2 | 1897 Dez. 5.0 | 1910.0 | 324 40 17.3 | 331 52 54.3 |
| 160 Una . . . . . | Juli 8 | 12.0 | 11.8 | 8.4 | 1897 Dez. 25.0 | 1910.0 | 33 30 8.8 | 46 47 30.1 |

| ☊ | $i$ | $\varphi$ | $\mu$ | Log. $a$ | Autorität |
|---|---|---|---|---|---|
| ° ′ ″ | ° ′ ″ | ° ′ ″ | ″ | | |
| 76 7 53.7 | 7 32 17.3 | 8 7 42.4 | 552.38630 | 0.5385091 | Berberich. |
| 178 46 18.9 | 1 36 32.9 | 3 5 21.7 | 615.76744 | 0.5070599 | Lange. |
| 308 38 28.5 | 6 25 27.6 | 7 1 21.7 | 802.5894 | 0.4303421 | Berberich. |
| 188 37 15.4 | 2 55 29.2 | 4 27 41.2 | 832.2976 | 0.4198186 | Hall sen. |
| 169 36 18.8 | 4 37 57.0 | 4 29 45.0 | 780.9349 | 0.4382611 | Lange. |
| 23 27 7.7 | 2 56 26.5 | 6 3 52.3 | 931.5192 | 0.3872099 | Heuer. |
| 31 53 43.8 | 8 15 42.7 | 3 47 29.9 | 775.8987 | 0.4401344 | Maywald. |
| 76 45 7.8 | 6 15 8.3 | 7 13 52.8 | 778.9624 | 0.4389934 | de Ball. |
| 137 58 12.8 | 12 10 1.8 | 12 15 18.0 | 730.5585 | 0.4575677 | Austin. |
| 146 16 41.6 | 22 58 1.8 | 12 29 21.9 | 646.4298 | 0.4929901 | Powalky. |
| 65 37 21.8 | 4 57 47.1 | 3 51 52.5 | 935.8550 | 0.3858654 | Berberich. |
| 260 11 30.0 | 23 32 20.0 | 19 21 13.8 | 903.6882 | 0.3959920 | W. Luther. |
| 321 25 52.7 | 7 13 50.2 | 8 2 47.1 | 662.6045 | 0.4858348 | v. d. Groeben. |
| 346 13 46.6 | 11 37 0.2 | 6 43 4.5 | 864.85381 | 0.4087093 | Maywald. |
| 344 13 36.6 | 2 18 34.4 | 11 45 17.6 | 937.0637 | 0.3854917 | Maywald. |
| 186 20 58.5 | 9 33 12.0 | 4 52 0.8 | 1025.7532 | 0.3593092 | H. Oppenheim. |
| 203 47 40.2 | 13 21 7.8 | 12 46 22.0 | 645.4607 | 0.4934245 | Lange. |
| 54 53 56.5 | 3 13 22.0 | 9 16 35.8 | 924.9117 | 0.3892709 | v. d. Groeben. |
| 2 33 1.8 | 10 55 19.7 | 9 57 48.4 | 764.0768 | 0.4445797 | Berberich. |
| 107 14 12.9 | 3 11 29.4 | 12 31 19.9 | 786.6737 | 0.4361413 | v. d. Groeben. |
| 319 28 26.5 | 11 58 39.3 | 12 16 57.4 | 814.6615 | 0.4260196 | Berberich. |
| 292 1 39.9 | 2 14 29.1 | 7 44 10.6 | 943.5246 | 0.3835023 | L. Becker. |
| 333 54 46.0 | 11 30 13.3 | 4 8 20.2 | 773.3958 | 0.4410699 | von Haerdtl. |
| 77 1 15.3 | 4 48 16.9 | 13 28 14.3 | 819.4849 | 0.4243104 | Powalky. |
| 77 55 52.9 | 12 41 10.3 | 8 24 20.6 | 812.2212 | 0.4268882 | Tietjen. |
| 84 26 43.8 | 13 5 8.8 | 3 39 14.6 | 791.4186 | 0.4344003 | Berberich. |
| 251 21 33.7 | 1 54 15.5 | 2 2 8.6 | 638.8069 | 0.4964247 | L. Becker. |
| 145 16 23.4 | 25 20 22.6 | 10 33 53.3 | 769.04503 | 0.4427033 | L. Becker. |
| 158 46 28.6 | 0 55 44.5 | 3 50 44.0 | 1105.79038 | 0.3370327 | Lange. |
| 207 50 0.6 | 2 8 18.4 | 7 20 7.3 | 689.2534 | 0.474418 | H. Oppenheim. |
| 39 1 12.0 | 6 28 21.2 | 2 10 51.3 | 850.1245 | 0.4136827 | Riem. |
| 41 25 0.5 | 12 13 21.2 | 4 12 12.4 | 637.2942 | 0.4971111 | Lange. |
| 228 25 29.9 | 7 51 46.8 | 9 22 46.0 | 451.32978 | 0.5970084 | Kühnert. |
| 37 7 11.1 | 20 58 16.6 | 5 0 50.9 | 624.00360 | 0.5032130 | Anton. |
| 43 20 30 | 14 4 31 | 14 49 28 | 713.7875 | 0.464292 | Schulhof. |
| 242 43 10.3 | 9 39 1.8 | 12 55 24.2 | 785.6858 | 0.436505 | Ebell. |
| 62 9 28.7 | 12 5 20.1 | 11 30 39.9 | 856.508 | 0.411518 | Sternberg. |
| 281 12 13.9 | 1 0 0.7 | 3 17 38.9 | 730.4848 | 0.4575969 | Maywald. |
| 135 12 3.7 | 6 4 55.0 | 5 37 45.9 | 647.4107 | 0.492551 | Berberich. |
| 9 24 54.3 | 3 51 22.4 | 3 45 8.1 | 787.7290 | 0.435753 | P. Neugebauer. |

| Nr. und Name | Opposition 1909 | Gr. | $m_0$ | $g$ | Epoche und Oskulation | Mittl. Äqu. | $M$ | $\omega$ |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | ° ′ ″ | ° ′ ″ |
| 161 Athor . . . . | April 12 | 11.1 | 11.0 | 8.4 | 1896 Dez. 30.0 | 1910.0 | 142 39 1.6 | 291 48 34.3 |
| 162 Laurentia . . | Aug. 11 | 13.2 | 12.3 | 8.4 | 1899 Sept. 6.0 | 1910.0 | 215 30 54.3 | 106 2 42.9 |
| 163 Erigone . . . | Mai 20 | 12.3 | 11.5 | 9.0 | 1907 Nov. 4.0 | 1910.0 | 334 40 45.7 | 295 29 18.5 |
| 164 Eva . . . . . | März 30 | 13.2 | 11.5 | 8.3 | 1909 März 18.0 | 1910.0 | 173 32 4.8 | 282 6 23.3 |
| 165 Loreley . . . | Juli 20 | 10.7 | 11.1 | 7.0 | 1897 April 9.0 | 1910.0 | 290 21 20.7 | 342 30 12.7 |
| 166 Rhodope . . . | Febr. 14 | 12.7 | 12.5 | 9.2 | 1897 Juni 8.0 | 1910.0 | 213 52 27.9 | 261 28 49.8 |
| 167 Urda . . . . . | Juni 4 | 12.8 | 13.0 | 9.4 | 1898 Jan. 14.0 | 1910.0 | 197 17 5.7 | 121 7 43.9 |
| 168 Sibylla . . . . | — | — | 11.6 | 7.1 | 1899 Mai 29.0 | 1910.0 | 218 22 50.2 | 174 26 31.9 |
| 169 Zelia . . . . . | Dez. 2 | 11.4 | 11.3 | 8.8 | 1890 Aug. 4.0 | 1910.0 | 328 1 8.3 | 332 10 48.8 |
| 170 Maria . . . . | — | — | 11.7 | 8.7 | 1908 Nov. 18.0 | 1910.0 | 310 26 49.4 | 155 58 24.9 |
| 171 Ophelia . . . | Dez. 14 | 11.9 | 12.1 | 8.0 | 1897 Okt. 6.0 | 1910.0 | 236 0 17.5 | 50 27 33.1 |
| 172 Baucis . . . . | — | — | 10.4 | 7.8 | 1889 Juni 30.0 | 1910.0 | 316 43 41.4 | 356 48 28.3 |
| 173 Ino . . . . . . | Okt. 7 | 9.7 | 11.0 | 7.6 | 1897 Jan. 19.0 | 1910.0 | 71 13 19.6 | 224 39 41.9 |
| 174 Phaedra . . . | Febr. 3 | 12.0 | 11.6 | 8.0 | 1897 Okt. 6.0 | 1910.0 | 129 24 10.1 | 286 21 18.9 |
| 175 Andromache | Febr. 18 | 13.2 | 12.3 | 8.0 | 1908 Jan. 3.0 | 1910.0 | 110 44 33.6 | 302 27 21.5 |
| 176 Idunna . . . | April 25 | 12.9 | 12.1 | 7.9 | 1909 April 27.0 | 1910.0 | 194 44 8.4 | 182 42 27.4 |
| 177 Irma . . . . . | Sept. 9 | 11.1 | 12.4 | 9.0 | 1897 Jan. 19.0 | 1910.0 | 71 42 48.0 | 33 16 9.9 |
| 178 Belisana . . . | — | — | 12.0 | 9.2 | 1908 Nov. 18.0 | 1910.0 | 150 40 29.8 | 213 7 40.6 |
| 179 Klytæmnestra | — | — | 11.5 | 7.7 | 1897 Okt. 6.0 | 1910.0 | 14 32 37.3 | 100 30 2.0 |
| 180 Garumna . . | — | — | 13.3 | 9.9 | 1899 Nov. 5.0 | 1910.0 | 308 53 34.6 | 169 12 38.1 |
| 181 Eucharis . . | Okt. 9 | 11.2 | 11.5 | 7.4 | 1887 Okt. 19.0 | 1910.0 | 305 49 36.6 | 310 26 20.5 |
| 182 Elsa . . . . . | Mai 22 | 11.9 | 11.0 | 8.3 | 1897 März 20.0 | 1910.0 | 102 51 45.1 | 308 16 41.4 |
| 183 Istria . . . . | Sept. 12 | 10.9 | 12.6 | 9.1 | 1900 Dez. 10.0 | 1910.0 | 15 39 20.2 | 262 21 44.2 |
| 184 Dejopeja . . . | Sept. 21 | 12.7 | 12.4 | 8.2 | 1909 Okt. 4.0 | 1910.0 | 168 55 15.6 | 216 45 47.2 |
| 185 Eunike . . . | — | — | 10.0 | 6.6 | 1889 Aug. 29.0 | 1910.0 | 328 9 2.3 | 221 34 37.8 |
| 186 Celuta . . . . | — | — | 11.4 | 8.9 | 1897 Aug. 27.0 | 1910.0 | 2 39 38.6 | 313 36 27.2 |
| 187 Lamberta . . | Jan. 10 | 11.5 | 11.4 | 8.0 | 1897 Aug. 27.0 | 1910.0 | 94 42 30.1 | 192 2 46.6 |
| 188 Menippe . . . | Febr. 7 | 13.9 | 13.0 | 9.6 | 1897 Sept. 1.0 | 1910.0 | 23 1 52.2 | 66 36 36.3 |
| 189 Phthia . . . . | Nov. 19 | 11.4 | 11.5 | 8.8 | 1900 Mai 24.0 | 1910.0 | 234 17 27.2 | 166 0 10.0 |
| 190 Ismene . . . | Sept. 23 | 12.1 | 12.0 | 6.7 | 1909 Okt. 4.0 | 1910.0 | 276 57 38.0 | 286 42 49.5 |
| 191 Kolga . . . . | — | — | 12.0 | 8.3 | 1897 Juli 18.0 | 1910.0 | 271 52 28.4 | 224 21 12.1 |
| 192 Nausikaa . . | März 18 | 10.4 | 9.3 | 6.7 | 1888 Juli 25.0 | 1910.0 | 324 20 18.4 | 27 40 24.5 |
| 193 Ambrosia . . | — | — | 12.2 | 9.2 | 1879 März 25.5 | 1910.0 | 68 48 35.8 | 79 36 55.8 |
| 194 Prokne . . . | April 29 | 10.6 | 10.5 | 7.4 | 1899 Jan. 29.0 | 1910.0 | 130 9 24.2 | 160 37 18.4 |
| 195 Eurykleia . . | Juni 16 | 12.4 | 12.6 | 8.9 | 1896 Nov. 20.0 | 1910.0 | 289 6 21.8 | 118 7 2.1 |
| 196 Philomela . . | Okt. 29 | 10.4 | 10.3 | 6.3 | 1901 April 9.0 | 1910.0 | 240 25 11.6 | 237 19 45.5 |
| 197 Arete . . . . | Jan. 4 | 13.3 | 12.7 | 9.3 | 1900 Jan. 24.0 | 1910.0 | 134 40 9.5 | 243 28 47.4 |
| 198 Ampella . . . | März 17 | 12.2 | 11.1 | 8.3 | 1909 April 7.0 | 1910.0 | 191 40 44.3 | 87 51 13.0 |
| 199 Byblis . . . . | Nov. 17 | 13.1 | 12.4 | 8.2 | 1909 Nov. 13.0 | 1910.0 | 138 47 14.4 | 171 8 9.7 |
| 200 Dynamene . . | März 18 | 11.5 | 11.3 | 7.9 | 1888 Juli 25.0 | 1910.0 | 277 46 23.8 | 82 43 1.3 |

| ☊ | | | i | | | φ | | | μ | Log. a | Autorität |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18° | 48′ | 52.5″ | 9° | 3′ | 17.7″ | 7° | 57′ | 23.4″ | 967.0645″ | 0.3763675 | Tietjen. |
| 38 | 16 | 1.8 | 6 | 5 | 6.0 | 10 | 31 | 5.3 | 676.5719 | 0.4797951 | Tietjen. |
| 160 | 15 | 7.2 | 4 | 46 | 38.3 | 11 | 1 | 54.1 | 974.2162 | 0.3742342 | Berberich. |
| 77 | 31 | 19.2 | 24 | 22 | 1.4 | 20 | 18 | 45.9 | 829.67925 | 0.4207309 | Richter. |
| 304 | 11 | 19.1 | 11 | 12 | 5.0 | 3 | 54 | 10.6 | 641.1299 | 0.4953737 | Samter. |
| 129 | 39 | 27.9 | 12 | 1 | 54.8 | 12 | 13 | 13.9 | 806.7683 | 0.4288385 | Richter. |
| 166 | 38 | 10.8 | 2 | 10 | 45.6 | 1 | 59 | 3.7 | 736.5954 | 0.4551851 | Lange. |
| 209 | 23 | 56.1 | 4 | 36 | 6.5 | 4 | 21 | 54.0 | 571.6864 | 0.5285658 | v. d. Groeben. |
| 354 | 58 | 8.5 | 5 | 30 | 51.2 | 7 | 31 | 33.7 | 979.6462 | 0.3726249 | Richter. |
| 301 | 24 | 32.6 | 14 | 21 | 24.5 | 3 | 37 | 7.2 | 869.19019 | 0.4072612 | Lange. |
| 101 | 3 | 53.7 | 2 | 33 | 12.1 | 6 | 38 | 28.6 | 636.3859 | 0.4975241 | Berberich. |
| 332 | 11 | 35.0 | 10 | 2 | 10.4 | 6 | 32 | 18.8 | 965.9899 | 0.3766893 | Berberich. |
| 148 | 53 | 6.9 | 14 | 15 | 36.8 | 11 | 51 | 44.6 | 780.8006 | 0.4383110 | Becka. |
| 328 | 48 | 32.4 | 12 | 6 | 32.9 | 8 | 23 | 43.8 | 734.0156 | 0.456201 | H. Oppenheim. |
| 25 | 26 | 12.4 | 3 | 10 | 33.3 | 11 | 4 | 20.9 | 611.29468 | 0.5091706 | Berberich. |
| 200 | 57 | 0.2 | 22 | 43 | 10.6 | 10 | 14 | 40.5 | 628.02079 | 0.5013550 | P. Neugebauer. |
| 349 | 34 | 1.8 | 1 | 26 | 55.3 | 13 | 32 | 58.0 | 768.8406 | 0.4427802 | Richter. |
| 51 | 1 | 17.2 | 1 | 54 | 28.5 | 2 | 35 | 38.3 | 919.74512 | 0.3908924 | Berberich. |
| 253 | 20 | 50.4 | 7 | 47 | 52.8 | 6 | 37 | 0.0 | 692.8578 | 0.472908 | H. Oppenheim. |
| 314 | 50 | 1.1 | 0 | 53 | 40.8 | 9 | 46 | 17.7 | 790.4612 | 0.4347507 | v. d. Groeben. |
| 145 | 7 | 22.1 | 18 | 35 | 23.6 | 12 | 40 | 26.5 | 643.5438 | 0.4942856 | de Ball. |
| 106 | 46 | 38.9 | 2 | 10 | 9.1 | 10 | 50 | 51.9 | 944.5132 | 0.3831990 | Samter. |
| 142 | 54 | 44.3 | 26 | 25 | 59.5 | 20 | 27 | 8.2 | 760.4634 | 0.4459522 | Petrelius. |
| 333 | 51 | 16.6 | 1 | 9 | 55.2 | 3 | 28 | 0.1 | 622.23902 | 0.5040329 | Thraen. |
| 154 | 3 | 8.4 | 23 | 14 | 21.7 | 7 | 11 | 14.1 | 782.8522 | 0.4375512 | Bauschinger. |
| 14 | 43 | 53.5 | 13 | 11 | 11.6 | 8 | 41 | 21.3 | 977.5884 | 0.3732337 | Tietjen. |
| 22 | 22 | 32.4 | 10 | 41 | 24.8 | 13 | 36 | 43.5 | 785.6152 | 0.4365311 | A. Leman. |
| 241 | 56 | 25.8 | 11 | 44 | 36.3 | 10 | 15 | 28.9 | 772.712 | 0.441326 | Coniel. |
| 203 | 32 | 11.1 | 5 | 8 | 54.2 | 2 | 4 | 18.4 | 924.2246 | 0.3894861 | H. Oppenheim. |
| 177 | 0 | 12.0 | 6 | 8 | 17.2 | 9 | 39 | 33.4 | 453.47043 | 0.5956384 | Küstner. |
| 159 | 59 | 7.7 | 11 | 29 | 25.6 | 5 | 13 | 5.0 | 720.0541 | 0.4617609 | L. Becker. |
| 343 | 33 | 25.4 | 6 | 51 | 40.6 | 14 | 9 | 22.7 | 952.4502 | 0.3807762 | Lange. |
| 351 | 40 | 33.1 | 11 | 38 | 46.5 | 16 | 34 | 52.0 | 858.2960 | 0.410913 | A. Leman. |
| 159 | 29 | 8.2 | 18 | 25 | 4.9 | 13 | 50 | 55.7 | 839.1447 | 0.4174465 | Tietjen. |
| 7 | 52 | 26.6 | 7 | 0 | 9.8 | 2 | 25 | 31.9 | 727.0481 | 0.4589623 | Riem. |
| 73 | 27 | 31.0 | 7 | 17 | 1.5 | 1 | 13 | 48.1 | 646.0377 | 0.4931658 | P. V. Neugebauer. |
| 82 | 10 | 10.5 | 8 | 49 | 20.8 | 9 | 22 | 12.5 | 782.6498 | 0.4376261 | Lange. |
| 268 | 27 | 2.4 | 9 | 17 | 52.9 | 13 | 6 | 40.0 | 919.18268 | 0.3910699 | v. d. Groeben. |
| 89 | 40 | 27.7 | 15 | 24 | 49.2 | 10 | 31 | 43.7 | 630.79505 | 0.5000789 | Tietjen. |
| 325 | 35 | 38.5 | 6 | 54 | 46.3 | 7 | 41 | 20.4 | 783.6017 | 0.4372741 | Bauschinger. |

| Nr. und Name | Opposition 1909 | Gr. | $m_0$ | $g$ | Epoche und Oskulation | Mittl. Äqu. | $M$ | $\omega$ |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | ° ′ ″ | ° ′ ″ |
| 201 Penelope . . | Mai 13 | 12.0 | 11.9 | 8.6 | 1897 Nov. 15.0 | 1910.0 | 53 1 33.0 | 177 43 4.8 |
| 202 Chryseïs . . | März 27 | 10.3 | 10.7 | 6.7 | 1896 Nov. 20.0 | 1910.0 | 296 12 57.2 | 355 17 24.9 |
| 203 Pompeja . . | April 15 | 12.0 | 11.7 | 8.3 | 1899 Jan. 9.0 | 1910.0 | 65 39 8.5 | 53 45 33.1 |
| 204 Kallisto . . . | Aug. 20 | 11.5 | 12.0 | 8.7 | 1888 Nov. 2.0 | 1910.0 | 140 55 19.4 | 51 16 26.1 |
| 205 Martha . . . | Febr. 18 | 12.8 | 12.7 | 9.2 | 1886 Febr. 26.0 | 1910.0 | 139 40 10.2 | 172 8 41.4 |
| 206 Hersilia . . . | April 18 | 12.1 | 12.0 | 8.6 | 1887 Juni 21.0 | 1910.0 | 184 57 36.2 | 300 24 35.6 |
| 207 Hedda . . . | Mai 18 | 12.1 | 11.8 | 9.5 | 1898 Febr. 3.0 | 1910.0 | 280 15 16.2 | 190 38 50.0 |
| 208 Lacrimosa . . | Dez. 12 | 12.0 | 12.1 | 8.4 | 1899 Nov. 25.0 | 1910.0 | 315 23 43.1 | 105 47 59.3 |
| 209 Dido . . . . | Jan. 4 | 11.9 | 11.5 | 7.4 | 1897 Dez. 25.0 | 1910.0 | 222 32 56.9 | 249 39 35.2 |
| 210 Isabella . . . | Mai 25 | 13.0 | 12.5 | 9.1 | 1897 Okt. 26.0 | 1910.0 | 358 48 23.3 | 10 17 39.2 |
| 211 Isolda . . . . | Juni 24 | 12.2 | 11.5 | 7.5 | 1895 Nov. 26.0 | 1910.0 | 1 10 15.0 | 170 41 36.4 |
| 212 Medea . . . . | Juni 5 | 12.7 | 12.2 | 8.1 | 1899 Juli 28.0 | 1910.0 | 276 2 57.4 | 101 16 7.9 |
| 213 Lilaea . . . . | Sept. 25 | 11.3 | 11.7 | 8.3 | 1898 Febr. 23.0 | 1910.0 | 229 20 37.9 | 158 35 27.9 |
| 214 Aschera . . . | Jan. 5 | 11.9 | 12.1 | 9.0 | 1897 April 9.0 | 1910.0 | 72 5 59.3 | 128 5 43.8 |
| 215 Oenone . . . | Sept. 17 | 12.5 | 12.7 | 9.3 | 1891 Nov. 7.0 | 1910.0 | 55 43 48.8 | 314 6 30.5 |
| 216 Kleopatra . . | Juni 6 | 10.8 | 10.1 | 6.6 | 1886 Juni 26.0 | 1910.0 | 277 9 56.8 | 176 11 54.3 |
| 217 Eudora . . . | Juli 15 | 10.9 | 13.1 | 9.5 | 1900 Dez. 10.0 | 1910.0 | 75 4 1.8 | 150 32 44.9 |
| 218 Bianca . . . | Febr. 21 | 11.2 | 11.4 | 8.2 | 1893 Aug. 28.0 | 1910.0 | 96 4 34.6 | 58 48 58.8 |
| 219 Thusnelda . | Nov. 9 | 10.4 | 11.2 | 8.8 | 1889 Jan. 21.0 | 1910.0 | 130 33 20.7 | 140 3 44.8 |
| 220 Stephania . . | — | — | 13.6 | 11.0 | 1887 Jan. 0.5 | 1910.0 | 131 12 41.6 | 75 7 33.9 |
| 221 Eos . . . . . | April 18 | 11.6 | 11.3 | 7.4 | 1898 März 15.0 | 1910.0 | 201 46 0.0 | 188 0 19.7 |
| 222 Lucia . . . . | Jan. 7 | 13.5 | 12.9 | 8.8 | 1898 Jan. 14.0 | 1910.0 | 225 34 56.4 | 175 52 41.3 |
| 223 Rosa . . . . | Febr. 15 | 12.7 | 13.3 | 9.2 | 1891 Dez. 17.0 | 1910.0 | 333 23 9.3 | 58 28 30.7 |
| 224 Oceana . . . | Sept. 1 | 11.6 | 11.7 | 8.5 | 1890 Febr. 5.0 | 1910.0 | 225 24 48.8 | 276 55 27.0 |
| 225 Henrietta . . | Nov. 7 | 12.8 | 12.7 | 8.2 | 1903 Nov. 5.0 | 1910.0 | 88 41 26.8 | 97 37 49.8 |
| 226 Weringia . . | Sept. 15 | 12.3 | 13.0 | 9.7 | 1891 Aug. 19.0 | 1910.0 | 30 52 14.2 | 150 8 45.9 |
| 227 Philosophia . | Mai 14 | 11.6 | 12.9 | 8.7 | 1896 Dez. 10.0 | 1910.0 | 283 51 33.6 | 254 29 42.9 |
| 228 Agathe . . . | — | — | 14.5 | 12.4 | 1892 Nov. 21.5 | 1910.0 | 49 45 10.8 | 16 2 37.2 |
| 229 Adelinda . . | Dez. 39 | 13.9 | 13.5 | 8.9 | 1901 Aug. 27.0 | 1910.0 | 3 50 29.2 | 303 1 51.4 |
| 230 Athamantis . | — | — | 10.3 | 7.7 | 1897 Okt. 26.0 | 1910.0 | 11 22 17.7 | 137 12 47.9 |
| 231 Vindobona . | — | — | 12.4 | 8.6 | 1898 Nov. 10.0 | 1910.0 | 164 53 38.2 | 263 38 46.4 |
| 232 Russia . . . | Sept. 21 | 14.1 | 13.4 | 10.4 | 1901 Sept. 16.0 | 1910.0 | 159 56 8.4 | 48 35 13.8 |
| 233 Asterope . . | April 27 | 11.6 | 11.3 | 8.1 | 1897 Aug. 27.0 | 1910.0 | 353 18 46.2 | 122 35 34.5 |
| 234 Barbara . . . | Okt. 15 | 10.4 | 11.7 | 9.1 | 1898 Okt. 21.0 | 1910.0 | 33 57 10.0 | 190 6 58.4 |
| 235 Carolina . . | — | — | 12.2 | 8.5 | 1897 Sept. 16.0 | 1910.0 | 73 32 29.3 | 207 24 29.7 |
| 236 Honoria . . . | Okt. 10 | 10.3 | 11.4 | 7.9 | 1890 Aug. 20.5 | 1910.0 | 341 11 56.1 | 170 30 20.7 |
| 237 Coelestina . . | — | — | 12.8 | 9.4 | 1897 März 20.0 | 1910.0 | 258 3 0.9 | 196 24 38.6 |
| 238 Hypatia . . . | Sept. 21 | 11.3 | 11.7 | 8.0 | 1900 Dez. 10.0 | 1910.0 | 54 45 6.4 | 207 2 40.9 |
| 239 Adrastea . . | Juni 20 | 14.6 | 14.0 | 10.2 | 1900 Dez. 10.0 | 1910.0 | 26 23 21.4 | 206 1 9.9 |
| 240 Vanadis . . | Mai 22 | 13.5 | 12.5 | 9.3 | 1901 Juli 18.0 | 1910.0 | 262 20 34.3 | 298 17 15.6 |

| ☊ | *i* | φ | μ | Log. *a* | Autorität |
|---|---|---|---|---|---|
| 157° 17′ 30.″2 | 5° 43′ 18.″9 | 10° 25′ 23.″2 | 809.″8362 | 0.4277396 | Bauschinger. |
| 137 54 25.3 | 8 49 26.9 | 5 51 45.4 | 659.4551 | 0.4872142 | Berberich. |
| 348 46 39.6 | 3 12 20.0 | 3 28 23.6 | 783.8637 | 0.4371774 | Berberich. |
| 206 2 34.8 | 8 17 3.5 | 9 51 34.4 | 812.2343 | 0.4268835 | Palisa. |
| 212 34 39.7 | 10 39 53.8 | 1 54 54.4 | 765.9190 | 0.4438825 | Küstner. |
| 145 33 33.3 | 3 45 25.4 | 2 19 59.5 | 782.3554 | 0.437735 | Stechert. |
| 29 5 52.3 | 3 49 3.8 | 1 39 3.3 | 1027.9888 | 0.3586788 | Richter. |
| 5 25 26.9 | 1 47 15.0 | 0 54 11.9 | 721.0639 | 0.4613553 | Berberich. |
| 2 8 19.7 | 7 14 33.2 | 3 46 48.4 | 636.9842 | 0.4972519 | Bauschinger. |
| 33 11 5.1 | 5 18 10.8 | 7 6 30.8 | 790.0977 | 0.4348838 | Berberich. |
| 265 28 46.4 | 3 52 0.2 | 9 15 38.8 | 668.6056 | 0.4832244 | Bauschinger. |
| 315 15 56.5 | 4 16 54.7 | 6 40 42.2 | 647.3973 | 0.4925571 | L. Becker. |
| 122 36 4.4 | 6 46 27.7 | 8 19 49.1 | 777.0010 | 0.4397233 | A. Leman. |
| 342 41 30.4 | 3 27 38.3 | 1 55 49.3 | 841.5265 | 0.416626 | Tietjen. |
| 25 28 14.6 | 1 43 23.1 | 2 1 15.5 | 771.4115 | 0.4418137 | Bauschinger. |
| 216 8 54.0 | 13 2 22.4 | 14 31 20.7 | 759.7703 | 0.4462162 | Knopf. |
| 164 9 28.1 | 10 15 31.0 | 17 38 25.1 | 727.0438 | 0.4589640 | Richter. |
| 171 10 12.2 | 15 12 11.0 | 6 36 19.6 | 814.9375 | 0.4259216 | Bauschinger. |
| 201 5 2.9 | 10 47 16.8 | 12 54 38.9 | 982.2924 | 0.3718439 | Darmer. |
| 258 52 26.3 | 7 34 13.7 | 14 53 43.7 | 984.634 | 0.371154 | Bidschof. |
| 142 45 34.4 | 10 50 59.6 | 5 34 47.1 | 677.3539 | 0.4794607 | Bauschinger. |
| 80 28 19.6 | 2 10 46.9 | 8 27 39.8 | 641.7676 | 0.4950859 | Berberich. |
| 48 48 2.4 | 1 58 46.6 | 6 57 0.4 | 652.9855 | 0.4900687 | Bauschinger. |
| 353 39 57.4 | 5 52 27.9 | 2 25 51.0 | 824.6755 | 0.4224824 | S. Oppenheim. |
| 200 52 24.6 | 20 41 56.1 | 15 18 16.8 | 567.5897 | 0.530647 | Cerulli. |
| 135 39 6.7 | 15 49 30.5 | 11 43 4.3 | 793.2109 | 0.433745 | Kreutz. |
| 331 9 43.9 | 9 15 0.1 | 12 2 39.9 | 637.0300 | 0.4972311 | Lange. |
| 313 44 55.4 | 2 33 21.6 | 13 55 0.2 | 1086.2400 | 0.3427205 | Kreutz. |
| 30 51 11.2 | 2 9 17.4 | 8 9 53.2 | 562.4884 | 0.5332620 | Berberich. |
| 239 53 16.0 | 9 25 11.6 | 3 32 52.8 | 964.9093 | 0.3770134 | Richter. |
| 352 24 25.6 | 5 8 18.5 | 8 56 36.2 | 711.1049 | 0.4653820 | Lange. |
| 152 33 31.6 | 6 4 17.4 | 9 51 22.1 | 869.5956 | 0.4071263 | v. d. Groeben. |
| 222 40 10.4 | 7 39 4.5 | 5 49 43.8 | 817.9445 | 0.4248552 | Knopf. |
| 144 25 8.3 | 15 21 14.2 | 14 7 1.5 | 962.6609 | 0.3776889 | Tietjen. |
| 66 42 2.0 | 9 4 3.2 | 3 31 18.9 | 725.2712 | 0.4596708 | Tietjen. |
| 186 49 0.9 | 7 36 48.4 | 10 54 45.4 | 758.1024 | 0.446853 | Bidschof. |
| 84 44 24.1 | 9 45 48.7 | 4 1 30.3 | 771.8775 | 0.4416388 | Schwarz. |
| 184 35 15.0 | 12 23 12.7 | 5 10 15.7 | 715.9041 | 0.463434 | Berberich. |
| 181 39 47.0 | 6 9 4.0 | 13 26 21.7 | 693.1222 | 0.472798 | Berberich. |
| 114 55 52.6 | 2 5 52.9 | 11 54 32.0 | 814.7587 | 0.4259851 | Berberich. |

| Nr. und Name | Opposition 1909 | Gr. | $m_0$ | $g$ | Epoche und Oskulation | Mittl. Äqu. | *M* | *ω* |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | ° ′ ″ | ° ′ ″ |
| 241 Germania . . | April 18 | 11.6 | 11.2 | 7.2 | 1909 April 27.0 | 1910.0 | 231 39 49.9 | 76 5 47.8 |
| 242 Kriemhild . . | — | — | 12.6 | 9.0 | 1889 Dez. 27.0 | 1910.0 | 307 49 54.4 | 274 28 16.5 |
| 243 Ida . . . . . | — | — | 13.3 | 9.7 | 1898 Sept. 11.0 | 1910.0 | 276 49 8.8 | 104 57 1.6 |
| 244 Sita . . . . . | Juni 8 | 14.0 | 13.7 | 11.7 | 1900 Okt. 11.0 | 1910.0 | 6 50 18.3 | 164 28 0.7 |
| 245 Vera . . . . | Mai 21 | 13.3 | 12.5 | 8.5 | 1897 März 20.0 | 1910.0 | 141 1 15.6 | 326 20 12.9 |
| 246 Asporina . . | Okt. 29 | 12.1 | 11.7 | 8.4 | 1890 Jan. 16.0 | 1910.0 | 316 40 26.7 | 94 5 7.1 |
| 247 Eukrate . . . | Juni 3 | 12.1 | 11.0 | 7.6 | 1909 Juni 6.0 | 1910.0 | 216 55 34.0 | 53 43 43.0 |
| 248 Lameia . . . | Sept. 7 | 13.0 | 13.0 | 10.2 | 1905 Aug. 6.0 | 1910.0 | 71 44 12.3 | 1 2 34.4 |
| 249 Ilse . . . . . | Febr. 19 | 14.4 | 13.6 | 11.1 | 1904 Dez. 29.0 | 1910.0 | 69 11 14.1 | 39 42 30.4 |
| 250 Bettina . . . | — | — | 11.5 | 7.3 | 1897 Nov. 15.0 | 1910.0 | 332 3 32.7 | 66 3 47.2 |
| 251 Sophia . . . | Jan. 13 | 13.2 | 13.6 | 9.6 | 1902 Nov. 10.0 | 1910.0 | 335 39 10.4 | 288 20 55.2 |
| 252 Clementina . | — | — | 13.0 | 8.8 | 1901 Juli 18.0 | 1910.0 | 317 26 58.9 | 148 50 33.1 |
| 253 Mathilde . . | März 5 | 14.6 | 13.4 | 10.2 | 1901 April 9.0 | 1910.0 | 256 52 2.1 | 153 38 18.0 |
| 254 Augusta . . | Juni 12 | 12.5 | 13.4 | 11.3 | 1887 Juli 31.0 | 1910.0 | 101 27 54.0 | 230 49 10.4 |
| 255 Oppavia . . | Mai 18 | 13.6 | 13.8 | 10.4 | 1890 Jan. 16.0 | 1910.0 | 336 40 35.6 | 149 6 36.3 |
| 256 Walpurga . . | Okt. 22 | 13.4 | 13.2 | 9.3 | 1906 Febr. 2.0 | 1910.0 | 254 22 31.1 | 48 28 9.1 |
| 257 Silesia . . . . | Juni 24 | 13.3 | 12.8 | 8.7 | 1902 April 4.0 | 1910.0 | 106 36 49.5 | 25 30 6.8 |
| 258 Tyche . . . . | Dez. 44 | 11.5 | 11.1 | 8.0 | 1904 Okt. 10.0 | 1900.0 | 4 23 24.3 | 152 52 26.8 |
| 259 Aletheia . . | Aug. 24 | 12.0 | 12.1 | 8.0 | 1899 Nov. 25.0 | 1910.0 | 162 11 23.4 | 156 52 33.7 |
| 260 Huberta . . | März 4 | 14.4 | 13.9 | 9.2 | 1900 Dez. 10.0 | 1910.0 | 92 3 1.9 | 163 58 5.7 |
| 261 Prymno . . . | Jan. 20 | 11.4 | 11.5 | 9.0 | 1897 Nov. 15.0 | 1910.0 | 275 46 24.4 | 63 7 47.9 |
| 262 Valda . . . . | Mai 18 | 15.1 | 14.1 | 11.1 | 1901 Mai 19.0 | 1910.0 | 189 4 51.8 | 22 36 56.6 |
| 263 Dresda . . . | Mai 23 | 13.5 | 13.3 | 9.6 | 1903 Febr. 18.0 | 1910.0 | 133 51 41.8 | 158 3 22.8 |
| 264 Libussa . . . | Aug. 27 | 11.6 | 12.1 | 8.6 | 1895 Aug. 18.0 | 1910.0 | 316 59 55.7 | 336 41 5.1 |
| 265 Anna . . . . | — | — | 13.8 | 11.1 | 1906 März 14.0 | 1910.0 | 334 34 37.9 | 251 23 58.2 |
| 266 Aline . . . . | Febr. 1 | 12.0 | 11.7 | 8.2 | 1904 Jan. 4.0 | 1900.0 | 65 48 59.9 | 147 50 13.7 |
| 267 Tirza . . . . | Febr. 5 | 14.3 | 14.0 | 10.5 | 1901 Juni 28.0 | 1910.0 | 4 14 46.5 | 193 22 52.6 |
| 268 Adorea . . . | Juli 3 | 12.6 | 12.5 | 8.5 | 1903 Mai 29.0 | 1910.0 | 41 9 17.0 | 58 53 55.4 |
| 269 Justitia . . . | Dez. 3 | 13.7 | 12.7 | 9.6 | 1900 Okt. 31.0 | 1910.0 | 91 35 3.3 | 115 31 13.2 |
| 270 Anahita . . . | April 19 | 11.4 | 11.0 | 8.9 | 1909 April 7.0 | 1910.0 | 248 15 40.5 | 78 32 6.1 |
| 271 Penthesilea . | — | — | 12.8 | 8.9 | 1902 Aug. 22.0 | 1910.0 | 303 17 6.1 | 49 19 54.7 |
| 272 Antonia . . . | Okt. 18 | 13.5 | 13.6 | 10.1 | 1899 Juli 28.0 | 1910.0 | 208 59 58.9 | 65 32 12.4 |
| 273 Atropos . . . | — | — | 11.6 | 9.0 | 1888 März 9.5 | 1910.0 | 261 20 1.8 | 118 28 21.5 |
| 274 Philagoria . | März 11 | 13.0 | 13.6 | 9.6 | 1905 Juli 17.0 | 1910.0 | 81 26 30.7 | 114 39 38.8 |
| 275 Sapientia . . | Nov. 19 | 12.1 | 12.0 | 8.5 | 1902 April 24.0 | 1910.0 | 36 26 14.9 | 31 7 20.2 |
| 276 Adelheid . . | Jan. 18 | 11.3 | 11.8 | 7.7 | 1905 Mai 18.0 | 1910.0 | 118 0 50.3 | 272 32 19.8 |
| 277 Elvira . . . . | Sept. 2 | 12.6 | 13.1 | 9.4 | 1907 März 9.0 | 1910.0 | 156 48 17.8 | 131 37 27.2 |
| 278 Paulina . . . | — | — | 12.7 | 9.3 | 1906 April 23.0 | 1910.0 | 4 42 43.8 | 137 20 17.4 |
| 279 Thule . . . . | Jan. 19 | 14.2 | 13.8 | 8.1 | 1907 Dez. 6.5 | 1910.0 | 121 15 55.9 | 234 27 55.0 |
| 280 Philia . . . . | — | — | 14.4 | 10.6 | 1900 Febr. 13.0 | 1910.0 | 39 45 20.2 | 80 58 25.3 |

| Ω | i | φ | μ | Log. a | Autorität |
|---|---|---|---|---|---|
| 271° 53′ 28″.6 | 5° 29′ 53″.8 | 5° 42′ 50″.4 | 666″.19379 | 0.4842707 | W. Luther. |
| 208 16 16.8 | 11 16 52.0 | 7 5 15.3 | 732.9031 | 0.4566401 | Herz. |
| 326 14 27.5 | 1 9 23.6 | 2 43 0.0 | 733.1121 | 0.456558 | Berberich. |
| 208 48 21.5 | 2 49 38.7 | 7 52 21.3 | 1106.6025 | 0.3373433 | Berberich. |
| 62 9 21.1 | 5 11 20.0 | 11 37 34.2 | 651.4943 | 0.4907307 | Tietjen. |
| 162 54 3.3 | 15 37 35.8 | 6 2 43.0 | 802.267 | 0.4304584 | Seydler. |
| 0 18 38.2 | 25 5 5.2 | 14 0 7.8 | 782.50003 | 0.4376815 | W. Luther. |
| 246 45 12.4 | 4 0 52.7 | 3 40 49.9 | 913.94026 | 0.3927259 | Berberich. |
| 334 49 30.7 | 9 40 10.9 | 12 28 59.5 | 968.2498 | 0.3760128 | Berberich. |
| 25 44 44.7 | 12 56 32.7 | 7 1 38.3 | 633.85003 | 0.498680 | P. V. Neugebauer. |
| 156 56 53.5 | 10 29 21.1 | 5 38 31.8 | 650.38006 | 0.4912263 | Knopf. |
| 203 12 39.2 | 9 59 40.2 | 4 15 39.6 | 632.1027 | 0.4994793 | Charlois. |
| 180 9 24.1 | 6 38 16.5 | 15 28 16.9 | 824.9747 | 0.4223773 | Knopf. |
| 28 28 40.6 | 4 32 3.2 | 6 58 7.6 | 1091.0836 | 0.3414323 | Schwarz. |
| 14 21 30.2 | 9 30 41.9 | 4 40 24.1 | 780.0705 | 0.4385818 | Laves. |
| 183 38 34.4 | 13 17 58.1 | 3 43 37.0 | 683.2594 | 0.4769473 | Berberich. |
| 35 32 38.3 | 3 40 9.7 | 7 18 8.3 | 646.6326 | 0.4928994 | Berberich. |
| 207 43 26.2 | 14 15 2.4 | 11 52 56.0 | 838.8243 | 0.4175571 | Stechert. |
| 88 37 4.1 | 10 42 43.7 | 6 20 43.1 | 635.21397 | 0.4980577 | Ernst. |
| 168 3 52.2 | 6 17 53.3 | 7 7 16.5 | 554.7196 | 0.5372887 | v. d. Groeben. |
| 96 28 8.3 | 3 38 28.6 | 5 9 55.5 | 996.7823 | 0.3676042 | Riem. |
| 38 44 43.0 | 7 44 4.6 | 12 14 5.8 | 869.5200 | 0.4071513 | Berberich. |
| 217 47 31.0 | 1 16 53.0 | 4 21 32.2 | 722.5549 | 0.4607572 | v. d. Groeben. |
| 50 12 15.6 | 10 26 47.1 | 7 44 47.5 | 757.7014 | 0.4470056 | Cerulli. |
| 335 26 56.8 | 25 40 50.5 | 15 20 26.1 | 941.9275 | 0.3839928 | Berberich. |
| 236 19 21.7 | 13 21 1.2 | 9 1 20.5 | 755.6505 | 0.4477904 | Berberich. |
| 74 11 19.8 | 6 1 26.2 | 5 46 49.5 | 767.3626 | 0.4433373 | v. d. Groeben. |
| 121 47 54.0 | 2 25 39.9 | 7 45 32.6 | 652.37206 | 0.4903408 | Berberich. |
| 157 37 9.8 | 5 25 49.2 | 12 18 39.7 | 838.9442 | 0.4175157 | Berberich. |
| 254 28 49.5 | 2 21 37.1 | 8 37 52.8 | 1088.59728 | 0.3420929 | Berberich. |
| 337 6 44.8 | 3 34 52.4 | 5 47 42.9 | 679.1966 | 0.4786741 | Knopf. |
| 37 51 15.8 | 4 28 30.9 | 1 46 56.3 | 767.2554 | 0.4433777 | Charlois. |
| 159 7 3.3 | 20 24 0.8 | 9 19 0.4 | 955.4037 | 0.379880 | Lange. |
| 93 45 36.1 | 3 40 53.3 | 7 7 6.3 | 669.09610 | 0.4830121 | Berberich. |
| 134 55 18.6 | 4 44 44.3 | 9 18 0.2 | 769.93398 | 0.4423688 | Lange. |
| 211 36 29.4 | 21 35 30.5 | 4 7 12.9 | 645.07018 | 0.4935998 | Hackenberg. |
| 233 17 5.0 | 1 8 0.1 | 5 18 42.5 | 724.6235 | 0.4599295 | Berberich. |
| 62 20 28.0 | 7 49 44.6 | 7 47 48.7 | 776.6491 | 0.4398545 | Berberich. |
| 75 36 14.8 | 2 22 29.8 | 4 37 35.7 | 404.29239 | 0.6288740 | Wedemeyer. |
| 11 25 17.4 | 7 27 30.5 | 6 19 13.9 | 703.8816 | 0.4683380 | Berberich. |

| Nr. und Name | Opposition 1909 | Gr. | m | g | Epoche und Oskulation | Mittl. Äqu. | M ° ′ ″ | ω ° ′ ″ |
|---|---|---|---|---|---|---|---|---|
| 281 Lucretia . . | Febr. 27 | 13.3 | 13.1 | 11.0 | 1888 Nov. 2.5 | 1910.0 | 353 32 12.5 | 14 35 2.4 |
| 282 Clorinde . . | Nov. 26 | 12.8 | 13.3 | 10.8 | 1905 Aug. 26.0 | 1910.0 | 277 9 37.1 | 294 43 20.3 |
| 283 Emma . . . . | — | — | 11.8 | 7.8 | 1901 Mai 19.0 | 1910.0 | 249 24 18.8 | 49 52 23.4 |
| 284 Amalia . . . | — | — | 12.9 | 10.4 | 1905 Dez. 24.0 | 1910.0 | 168 23 3.0 | 55 42 58.7 |
| 285 Regina . . . | — | — | 14.9 | 10.9 | 1889 Aug. 19.5 | 1910.0 | 357 36 27.2 | 12 28 58.7 |
| 286 Iclea . . . . | Jan. 13 | 13.3 | 13.2 | 9.0 | 1905 Juni 7.0 | 1910.0 | 211 56 51.1 | 243 11 59.6 |
| 287 Nephthys . . | — | — | 10.7 | 8.2 | 1899 April 19.0 | 1910.0 | 311 52 37.9 | 117 32 38.4 |
| 288 Glauke . . . | Juni 14 | 11.7 | 12.5 | 9.1 | 1909 Juni 26.0 | 1910.0 | 45 16 58.1 | 79 51 24.7 |
| 289 Nenetta . . . | Jan. 11 | 12.5 | 12.5 | 8.8 | 1907 Aug. 16.0 | 1910.0 | 337 3 13.4 | 185 22 3.2 |
| 290 Bruna . . . . | Aug. 7 | 15.3 | 13.9 | 11.5 | 1890 Mai 7.5 | 1910.0 | 56 49 22.1 | 103 32 41.3 |
| 291 Alice . . . . | — | — | 13.6 | 11.4 | 1905 Dez. 24.0 | 1910.0 | 337 18 6.1 | 329 28 13.1 |
| 292 Ludovica . . | — | — | 12.5 | 9.5 | 1903 Sept. 6.5 | 1910.0 | 3 3 9.9 | 287 29 17.0 |
| 293 Brasilia . . . | April 20 | 12.5 | 12.9 | 9.2 | 1890 Juni 17.5 | 1910.0 | 92 28 41.4 | 82 22 24.6 |
| 294 Felicia . . . | — | — | 14.3 | 10.2 | 1901 Aug. 7.0 | 1910.0 | 353 2 17.9 | 179 28 13.6 |
| 295 Theresia . . | Okt. 9 | 12.7 | 13.5 | 10.0 | 1900 Dez. 10.0 | 1910.0 | 8 35 38.2 | 143 48 50.9 |
| 296 Phaëtusa . . | April 8 | 14.1 | 13.3 | 11.1 | 1890 Aug. 22.0 | 1910.0 | 330 33 11.7 | 250 4 4.6 |
| 297 Caecilia . . . | — | — | 13.3 | 9.1 | 1906 Juni 2.0 | 1910.0 | 300 21 16.8 | 346 24 30.3 |
| 298 Baptistina . | März 9 | 13.0 | 13.5 | 11.3 | 1906 Mai 13.0 | 1910.0 | 83 33 27.7 | 132 43 13.3 |
| 299 Thora . . . . | Okt. 30 | 14.1 | 14.5 | 11.7 | 1903 Jan. 19.5 | 1910.0 | 83 26 9.5 | 147 35 9.9 |
| 300 Geraldina . . | — | — | 12.5 | 8.2 | 1895 Juli 10.0 | 1910.0 | 336 44 54.3 | 283 3 2.7 |
| 301 Bavaria . . . | — | — | 12.7 | 9.3 | 1903 Okt. 16.0 | 1910.0 | 95 17 5.1 | 121 19 7.3 |
| 302 Clarissa . . . | Nov. 22 | 12.9 | 13.9 | 11.2 | 1901 Sept. 16.0 | 1910.0 | 290 56 54.8 | 53 3 25.3 |
| 303 Josephina . . | Mai 29 | 12.4 | 12.0 | 7.9 | 1908 März 23.5 | 1910.0 | 118 30 44.3 | 70 2 57.9 |
| 304 Olga . . . . | Jan. 4 | 13.1 | 12.4 | 9.7 | 1906 Febr. 2.0 | 1910.0 | 193 33 14.2 | 169 45 47.0 |
| 305 Gordonia . . | Juni 26 | 13.4 | 12.5 | 8.4 | 1905 Okt. 5.0 | 1910.0 | 281 49 57.0 | 250 36 56.1 |
| 306 Unitas . . . | Febr. 18 | 11.5 | 10.7 | 8.2 | 1902 März 15.5 | 1910.0 | 240 21 9.1 | 165 31 57.6 |
| 307 Nike . . . . | Nov. 15 | 12.3 | 13.1 | 9.4 | 1891 März 8.5 | 1910.0 | 74 37 11.8 | 320 29 5.7 |
| 308 Polyxo . . . | März 4 | 11.1 | 11.0 | 7.6 | 1902 Nov. 10.0 | 1910.0 | 97 52 8.3 | 108 53 30.4 |
| 309 Fraternitas . | Juli 24 | 12.2 | 12.7 | 9.5 | 1891 Mai 11.5 | 1910.0 | 239 5 58.0 | 332 8 15.9 |
| 310 Margarita . . | April 16 | 12.8 | 13.5 | 10.1 | 1891 Juni 17.5 | 1910.0 | 48 49 25.4 | 320 41 8.3 |
| 311 Claudia . . . | Jan. 3 | 12.9 | 13.0 | 9.3 | 1903 Dez. 15.0 | 1910.0 | 301 3 0.2 | 71 48 18.9 |
| 312 Pierretta . . | Juli 26 | 11.6 | 12.5 | 9.0 | 1901 Nov. 15.0 | 1910.0 | 149 15 57.6 | 256 32 46.2 |
| 313 Chaldaea . . | Aug. 6 | 11.2 | 10.3 | 7.7 | 1906 Okt. 20.0 | 1910.0 | 272 0 32.8 | 313 53 31.3 |
| 314 Rosalia . . . | — | — | 14.0 | 9.9 | 1907 Juli 7.0 | 1910.0 | 304 32 21.0 | 185 10 13.6 |
| 315 Constantia . | — | — | 14.0 | 11.8 | 1891 Sept. 4.5 | 1910.0 | 9 27 44.6 | 171 22 42.4 |
| 316 Goberta . . . | Dez. 20 | 12.5 | 13.3 | 9.1 | 1893 Jan. 0.0 | 1910.0 | 11 29 4.9 | 307 29 39.4 |
| 317 Roxane . . . | Dez. 18 | 12.3 | 12.2 | 9.8 | 1904 März 24.0 | 1910.0 | 223 53 21.1 | 185 10 51.7 |
| 318 Magdalena . | Okt. 21 | 13.0 | 13.2 | 9.0 | 1903 Sept. 26.0 | 1910.0 | 294 58 3.9 | 273 31 23.8 |
| 319 Leona . . . . | Juli 20 | 14.3 | 14.2 | 9.7 | 1906 Febr. 22.0 | 1910.0 | 83 18 24.7 | 216 19 52.6 |
| 320 Katharina . . | Febr. 6 | 14.6 | 13.7 | 9.8 | 1891 Dez. 2.5 | 1910.0 | 23 36 28.6 | 142 54 14.8 |

| Ω | i | φ | μ | Log. a | Autorität |
|---|---|---|---|---|---|
| 31° 18′ 2″.7 | 5° 19′ 37″.6 | 7° 35′ 40″.8 | 1097″.869 | 0.339637 | Seydler. |
| 144 47 14.0 | 9 1 23.8 | 4 40 42.6 | 992.0943 | 0.3689684 | Berberich. |
| 305 51 15.2 | 8 2 29.8 | 8 46 12.1 | 668.5906 | 0.483231 | Berberich. |
| 234 2 0.7 | 8 4 14.3 | 12 51 34.8 | 979.7243 | 0.3726018 | Berberich. |
| 312 19 2.3 | 17 16 57.9 | 11 55 35.4 | 661.4827 | 0.4863254 | Charlois. |
| 149 38 59.4 | 17 53 34.1 | 0 45 31.4 | 620.6276 | 0.5047837 | Berberich. |
| 142 13 54.2 | 10 1 20.1 | 1 19 35.4 | 982.6631 | 0.371735 | Cerulli. |
| 121 4 39.5 | 4 19 57.2 | 11 49 52.3 | 773.88139 | 0.4408881 | R. Luther. |
| 182 36 31.3 | 6 39 22.0 | 11 44 54.4 | 728.0006 | 0.4585832 | Berberich. |
| 10 35 19.4 | 22 13 28.1 | 15 4 22.7 | 995.1925 | 0.368066 | S. Oppenheim. |
| 161 7 22.5 | 1 50 32.2 | 5 19 14.8 | 1071.1737 | 0.3467645 | Berberich. |
| 43 11 16.0 | 14 52 8.2 | 1 41 17.2 | 880.6967 | 0.4034534 | Berberich. |
| 62 20 54.1 | 15 45 20.9 | 6 48 2.9 | 730.8370 | 0.4574574 | Charlois. |
| 137 3 38.4 | 6 14 57.7 | 14 21 59.6 | 638.4006 | 0.4966088 | P. V. Neugebauer. |
| 277 34 14.1 | 2 40 23.3 | 9 49 31.5 | 758.6107 | 0.4466584 | Berberich. |
| 121 1 53.2 | 1 44 47.3 | 9 6 25.9 | 1068.122 | 0.3475906 | Coniel. |
| 333 34 56.7 | 7 34 41.9 | 7 57 28.4 | 629.2581 | 0.5007852 | Berberich. |
| 8 7 5.8 | 6 17 37.4 | 5 28 22.7 | 1041.4193 | 0.3549207 | Berberich. |
| 242 2 9.3 | 1 35 16.8 | 3 29 25.0 | 935.125 | 0.386091 | Berberich. |
| 42 21 30.3 | 0 47 5.4 | 2 26 41.4 | 617.2655 | 0.5063564 | Rodin. |
| 142 45 15.3 | 4 52 38.1 | 3 42 13.9 | 787.7302 | 0.4357527 | Berberich. |
| 7 53 21.9 | 3 26 4.1 | 6 22 53.8 | 950.1028 | 0.3814907 | Berberich. |
| 345 6 47.2 | 6 55 28.9 | 4 6 42.7 | 644.21972 | 0.4939818 | Millosevich. |
| 158 53 56.4 | 15 47 16.1 | 12 49 46.2 | 952.9185 | 0.3806339 | Berberich. |
| 211 11 17.9 | 4 25 2.2 | 11 33 54.0 | 654.8993 | 0.4892213 | Berberich. |
| 141 43 35.3 | 7 15 13.9 | 8 40 35.6 | 980.0925 | 0.372493 | Millosevich. |
| 101 43 34.0 | 6 6 42.4 | 8 16 29.7 | 715.9363 | 0.4634215 | Knopf. |
| 182 8 53.0 | 4 19 54.1 | 2 13 1.3 | 778.7887 | 0.4390579 | Berberich. |
| 358 7 59.8 | 3 56 18.3 | 5 1 56.0 | 831.679 | 0.420034 | Berberich. |
| 230 43 26.5 | 3 5 55.3 | 6 31 55.2 | 775.6563 | 0.440225 | Berberich. |
| 81 17 5.0 | 3 15 38.0 | 0 58 32.8 | 721.5158 | 0.4611738 | Berberich. |
| 7 40 39.7 | 9 5 3.2 | 9 13 39.5 | 765.2695 | 0.4441281 | P. V. Neugebauer. |
| 176 40 23.5 | 11 36 14.2 | 10 27 16.0 | 969.4022 | 0.3756684 | Berberich. |
| 171 17 15.6 | 12 32 21.5 | 10 26 41.1 | 634.7188 | 0.4982835 | Berberich. |
| 161 22 12.5 | 2 24 30.8 | 9 40 17.9 | 1057.2646 | 0.3505486 | Bohlin. |
| 124 39 7.9 | 2 18 33.4 | 7 57 58.6 | 627.7382 | 0.501485 | Berberich. |
| 150 50 32.5 | 1 45 18.0 | 4 50 38.8 | 1025.9378 | 0.3592571 | Berberich. |
| 162 49 53.4 | 10 33 32.6 | 3 35 37.4 | 616.07949 | 0.506913 | Mader. |
| 189 5 22.4 | 10 44 15.4 | 12 15 56.9 | 563.9420 | 0.5325148 | Berberich. |
| 221 12 36.2 | 9 19 16.0 | 6 41 30.5 | 678.726 | 0.478875 | Berberich. |

| Nr. und Name | Opposition 1909 | Gr. | $m_0$ | $g$ | Epoche und Oskulation | Mittl. Äqu. | $M$ | $\omega$ |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | ° ′ ″ | ° ′ ″ |
| 321 Florentina . . | Mai 30 | 13.4 | 13.2 | 9.5 | 1903 Febr. 18.0 | 1910.0 | 72 54 39.7 | 34 0 40.1 |
| 322 Phaeo . . . . . | Aug. 1 | 11.1 | 12.3 | 8.8 | 1905 Nov. 14.0 | 1910.0 | 38 46 38.3 | 111 32 54.5 |
| 323 Brucia . . . . | — | — | 13.0 | 11.0 | 1892 Jan. 1.5 | 1891.0 | 43 0 42 | 292 17 48 |
| 324 Bamberga . . | Jan. 14 | 9.7 | 9.9 | 6.6 | 1906 April 3.0 | 1910.0 | 195 13 6.8 | 40 19 30.5 |
| 325 Heidelberga . | Febr. 18 | 12.2 | 12.4 | 8.1 | 1906 Aug. 1.0 | 1910.0 | 270 22 12.3 | 74 39 7.7 |
| 326 Tamara . . . . | Jan. 20 | 12.2 | 11.1 | 8.7 | 1892 März 20.0 | 1910.0 | 298 49 14.0 | 236 57 34.2 |
| 327 Columbia . . . | — | — | 13.0 | 9.5 | 1905 Febr. 7.0 | 1910.0 | 181 23 55.4 | 300 41 58.1 |
| 328 Gudrun . . . . | April 27 | 12.6 | 12.3 | 8.2 | 1906 Okt. 20.0 | 1910.0 | 309 12 45.4 | 102 25 47.4 |
| 329 Svea . . . . . | Okt. 2 | 12.3 | 12.1 | 9.3 | 1901 Aug. 27.0 | 1910.0 | 120 9 24.9 | 38 30 56.3 |
| 330 Adalberta . . | — | — | 13.5 | 11.7 | 1892 März 20.5 | 1892.0 | 181 3 42 | — — — |
| 331 Etheridgea . . | Aug. 13 | 11.9 | 12.5 | 8.5 | 1907 Febr. 17.0 | 1910.0 | 158 33 59.1 | 333 35 38.5 |
| 332 Siri . . . . . . | — | — | 12.6 | 9.1 | 1906 März 14.0 | 1910.0 | 223 56 59.9 | 293 37 55.7 |
| 333 Badenia . . . | Nov. 2 | 11.8 | 12.7 | 8.6 | 1907 April 18.0 | 1910.0 | 215 17 59.6 | 14 14 18.9 |
| 334 Chicago . . . . | Dez. 1 | 12.0 | 12.0 | 6.8 | 1908 Sept. 19.0 | 1910.0 | 356 5 54.5 | 240 27 12.1 |
| 335 Roberta . . . . | — | — | 11.6 | 8.8 | 1906 Febr. 2.0 | 1910.0 | 205 28 47.7 | 140 50 43.9 |
| 336 Lacadiera . . . | Okt. 15 | 12.1 | 11.8 | 9.6 | 1902 Juni 23.0 | 1910.0 | 49 57 10.9 | 28 49 41.1 |
| 337 Devosa . . . . | April 29 | 11.8 | 11.4 | 8.8 | 1901 Jan. 19.0 | 1910.0 | 27 7 6.0 | 95 40 16.9 |
| 338 Budrosa . . . | Jan. 15 | 12.1 | 12.1 | 8.4 | 1899 Jan. 9.0 | 1910.0 | 72 15 37.1 | 106 31 3.0 |
| 339 Dorothea . . . | — | — | 12.8 | 8.8 | 1906 April 23.0 | 1910.0 | 246 3 47.7 | 155 59 18.6 |
| 340 Eduarda . . . | Juni 6 | 13.9 | 12.9 | 9.5 | 1906 Nov. 9.0 | 1910.0 | 346 36 56.4 | 39 58 16.1 |
| 341 California . . . | Dez. 45 | 14.0 | 13.1 | 11.0 | 1907 Jan. 28.0 | 1910.0 | 172 9 40.7 | 291 20 59.2 |
| 342 Endymion . . | — | — | 12.8 | 9.8 | 1906 Febr. 2.0 | 1910.0 | 33 2 34.6 | 221 45 48.4 |
| 343 Ostara . . . . | April 14 | 14.6 | 13.5 | 10.9 | 1906 Juni 2.0 | 1910.0 | 230 17 35.4 | 7 5 53.9 |
| 344 Desiderata . . | Nov. 23 | 12.5 | 11.7 | 8.5 | 1907 März 9.0 | 1910.0 | 236 59 21.3 | 233 57 8.8 |
| 345 Tercidina . . . | Juli 22 | 11.5 | 11.2 | 8.8 | 1906 Okt. 20.0 | 1910.0 | 304 42 30.8 | 229 3 10.0 |
| 346 Hermentaria . | Mai 15 | 11.9 | 11.5 | 8.0 | 1899 März 10.0 | 1910.0 | 156 0 38.3 | 287 6 50.9 |
| 347 Pariana . . . . | Dez. 4 | 11.9 | 12.0 | 8.8 | 1906 Jan. 13.5 | 1910.0 | 309 39 11.0 | 83 32 9.5 |
| 348 May . . . . . . | Jan. 30 | 12.6 | 12.9 | 9.1 | 1895 Mai 10.0 | 1910.0 | 143 12 22.8 | 4 58 1.5 |
| 349 Dembowska . | März 7 | 10.2 | 9.8 | 6.0 | 1896 Aug. 12.0 | 1910.0 | 319 16 56.2 | 340 30 13.5 |
| 350 Ornamenta . . | — | — | 12.7 | 8.6 | 1907 Juli 7.0 | 1910.0 | 240 6 7.0 | 331 59 51.1 |
| 351 Yrsa . . . . . | Aug. 10 | 13.0 | 12.2 | 8.8 | 1907 Jan. 28.0 | 1910.0 | 354 50 4.6 | 27 13 3.4 |
| 352 Gisela . . . . | — | — | 12.1 | 10.0 | 1904 Juni 12.0 | 1910.0 | 255 25 57.5 | 142 27 24.3 |
| 353 Ruperto-Carola | — | — | 14.2 | 10.9 | 1893 Febr. 22.5 | 1910.0 | 44 0 13.0 | 317 41 4.5 |
| 354 Eleonora . . . | Aug. 10 | 10.6 | 10.0 | 6.5 | 1901 Dez. 5.0 | 1910.0 | 303 30 35.7 | 3 34 23.7 |
| 355 Gabriella . . . | — | — | 13.1 | 10.1 | 1905 Jan. 2.5 | 1910.0 | 12 25 36.0 | 94 32 55.4 |
| 356 Liguria . . . . | Juli 28 | 11.6 | 11.0 | 7.6 | 1907 Febr. 17.0 | 1910.0 | 64 49 7.3 | 74 23 55.2 |
| 357 Ninina . . . . | — | — | 12.2 | 8.0 | 1907 Sept. 18.5 | 1910.0 | 340 46 14.9 | 242 29 42.0 |
| 358 Apollonia . . . | Juni 10 | 13.1 | 12.5 | 8.8 | 1893 März 10.5 | 1910.0 | 86 52 43.5 | 248 18 56.9 |
| 359 Georgia . . . . | Dez. 27 | 12.5 | 12.3 | 8.9 | 1902 Mai 2.5 | 1910.0 | 203 0 32.1 | 336 37 38.1 |
| 360 Carlova . . . . | April 10 | 12.5 | 11.9 | 8.0 | 1908 Jan. 3.0 | 1910.0 | 33 4 5.4 | 286 54 56.0 |

| ☊ | i | φ | μ | Log. a | Autorität |
|---|---|---|---|---|---|
| 40° 47′ 5.0″ | 2° 36′ 56.6″ | 2° 39′ 3.1″ | 723.6554 | 0.4603165 | Berberich. |
| 253 56 18.3 | 7 59 8.1 | 14 15 14.3 | 763.9060 | 0.4446445 | Berberich. |
| 97 2 30 | 19 20 54 | 15 57 36 | 1119.60 | 0.333960 | Berberich. |
| 329 8 36.3 | 11 18 40.9 | 19 47 42.6 | 807.8079 | 0.4284657 | Berberich. |
| 345 21 18.6 | 8 33 40.7 | 9 8 49.5 | 616.9272 | 0.5065151 | Berberich. |
| 32 9 9.7 | 23 47 22.4 | 10 48 17.5 | 1005.7638 | 0.365007 | Bidschof. |
| 355 39 44.3 | 7 9 11.2 | 3 41 18.3 | 766.8777 | 0.4435203 | Berberich. |
| 353 15 29.5 | 16 7 1.7 | 7 2 42.8 | 649.8767 | 0.4914504 | Berberich. |
| 178 28 13.5 | 16 0 36.7 | 1 35 42.6 | 912.1349 | 0.3932983 | Pannekoek. |
| 358 46 36 | 19 58 36 | — — — | 1174.9 | 0.32000 | Berberich. |
| 22 52 28.7 | 6 4 30.0 | 5 58 43.0 | 675.6718 | 0.4801805 | Berberich. |
| 32 3 7.2 | 2 52 35.7 | 5 10 38.7 | 768.7492 | 0.4428147 | Berberich. |
| 355 22 47.1 | 3 50 23.7 | 10 5 3.7 | 644.6123 | 0.4938053 | Berberich. |
| 134 20 51.2 | 4 37 53.7 | 0 54 49.6 | 458.6230 | 0.5923672 | Berberich. |
| 147 55 31.6 | 5 5 49.9 | 10 22 10.8 | 912.6621 | 0.3931311 | Berberich. |
| 235 1 13.3 | 5 38 30.7 | 5 28 48.1 | 1049.8478 | 0.3525869 | Berberich. |
| 355 41 19.0 | 7 51 56.4 | 7 57 52.0 | 964.4421 | 0.3771536 | Coniel. |
| 288 39 56.0 | 6 2 41.2 | 1 12 38.1 | 713.531 | 0.464396 | Coniel. |
| 174 26 7.4 | 9 53 59.7 | 5 49 6.3 | 679.2158 | 0.4786658 | Berberich. |
| 27 35 29.8 | 4 42 11.5 | 6 46 57.8 | 779.9016 | 0.4386445 | Berberich. |
| 29 3 57.0 | 5 40 1.7 | 11 8 39.8 | 1087.7152 | 0.3423276 | Berberich. |
| 233 0 11.1 | 7 20 46.9 | 7 22 8.5 | 862.0140 | 0.4096615 | Berberich. |
| 38 42 17.6 | 3 18 13.3 | 13 23 25.7 | 947.4192 | 0.3823097 | Berberich. |
| 49 0 25.8 | 18 36 32.9 | 18 20 50.5 | 850.5213 | 0.4135476 | Berberich. |
| 212 31 31.0 | 9 44 20.7 | 3 30 29.0 | 1000.9051 | 0.3664092 | Viaro. |
| 92 32 7.0 | 8 45 21.1 | 5 47 46.6 | 758.53251 | 0.446688 | Ehrenfeucht. |
| 85 52 47.9 | 11 42 41.9 | 9 21 56.3 | 838.0358 | 0.4178294 | Boccardi. |
| 90 45 49.6 | 9 45 30.5 | 3 49 50.1 | 693.6375 | 0.472584 | P. V. Neugebauer. |
| 33 13 11.3 | 8 17 24.6 | 5 8 39.7 | 709.2917 | 0.466122 | P. V. Neugebauer. |
| 90 39 23.5 | 24 44 31.8 | 8 44 29.1 | 643.0948 | 0.4944877 | Berberich. |
| 99 40 26.2 | 9 13 56.4 | 8 52 21.2 | 770.7562 | 0.4420597 | Berberich. |
| 247 18 51.6 | 3 22 0.5 | 8 36 26.8 | 1091.9690 | 0.3411975 | Berberich. |
| 103 23 14.9 | 5 34 36.4 | 19 15 26.7 | 787.080 | 0.435992 | Berberich. |
| 140 49 23.3 | 18 22 24.1 | 6 35 44.4 | 754.8010 | 0.4481160 | Ciscato. |
| 352 19 52.4 | 4 21 6.4 | 6 12 55.9 | 877.280 | 0.404580 | Berberich. |
| 356 14 1.3 | 8 16 5.4 | 14 2 9.4 | 776.2821 | 0.4399913 | Berberich. |
| 138 47 50.5 | 15 6 50.1 | 4 5 44.9 | 634.456 | 0.498404 | P. V. Neugebauer. |
| 173 8 14.8 | 3 31 44.7 | 8 26 24.1 | 725.563 | 0.459554 | Coniel. |
| 6 41 13.1 | 6 48 31.7 | 8 58 30.9 | 787.647 | 0.435783 | Berberich. |
| 133 23 12.5 | 11 39 55.5 | 10 20 45.1 | 682.0180 | 0.4774739 | Berberich. |

| Nr. und Name | Opposition 1909 | Gr. | $m_0$ | $g$ | Epoche und Oskulation | Mittl. Äqu. | $M$ | $\omega$ |
|---|---|---|---|---|---|---|---|---|
| 361 Bononia . . | März 27 | 13.1 | 13.3 | 8.0 | 1906 Okt. 20.0 | 1910.0 | 315° 0′ 55.4″ | 75° 44′ 20.7″ |
| 362 Havnia . . . | Jan. 18 | 11.0 | 11.1 | 8.0 | 1905 Febr. 7.0 | 1910.0 | 72 40 34.9 | 29 11 6.7 |
| 363 Padua . . . | Nov. 6 | 11.3 | 11.6 | 8.2 | 1902 Febr. 23.0 | 1910.0 | 150 10 39.9 | 293 18 1.4 |
| 364 Isara . . . . | — | — | 11.7 | 9.5 | 1906 Febr. 2.0 | 1910.0 | 64 52 29.0 | 311 1 48.7 |
| 365 Corduba . . | Sept. 2 | 11.6 | 12.2 | 8.7 | 1904 Juli 22.0 | 1910.0 | 286 5 51.5 | 209 40 43.5 |
| 366 Vincentina . | Febr. 8 | 12.6 | 12.3 | 8.2 | 1904 März 24.0 | 1910.0 | 241 10 18.0 | 314 58 42.8 |
| 367 Amicitia . . | Febr. 15 | 11.9 | 12.5 | 10.3 | 1906 März 28.5 | 1910.0 | 52 40 0.0 | 53 16 37.5 |
| 368 Haidea . . . | Mai 20 | 13.0 | 13.5 | 9.5 | 1893 Juli 17.5 | 1910.0 | 317 18 49.4 | 85 6 56.3 |
| 369 Aëria . . . . | Febr. 25 | 13.2 | 12.7 | 9.5 | 1906 Juli 12.0 | 1910.0 | 287 6 32.8 | 266 17 7.5 |
| 370 Modestia . . | — | — | 12.8 | 10.4 | 1907 Juli 7.0 | 1910.0 | 294 33 33.7 | 66 1 12.1 |
| 371 Bohemia . . | — | — | 11.8 | 8.4 | 1903 Nov. 5.0 | 1910.0 | 134 40 33.2 | 338 44 38.3 |
| 372 Palma . . . | Juli 25 | 11.5 | 10.5 | 6.4 | 1905 Dez. 4.0 | 1910.0 | 2 21 33.6 | 113 11 50.6 |
| 373 Melusina . . | Juli 31 | 12.2 | 12.8 | 8.7 | 1907 März 9.0 | 1910.0 | 165 50 25.5 | 347 42 45.3 |
| 374 Burgundia . | — | — | 11.7 | 8.2 | 1906 Juni 2.0 | 1910.0 | 20 43 28.8 | 22 6 54.0 |
| 375 Ursula . . . | Aug. 6 | 10.5 | 11.0 | 6.9 | 1901 Jan. 19.0 | 1910.0 | 155 15 7.8 | 344 31 25.5 |
| 376 Geometria . | Jan. 27 | 12.3 | 11.8 | 9.4 | 1904 Nov. 19.0 | 1910.0 | 171 38 36.4 | 314 16 28.2 |
| 377 Campania . | April 22 | 11.9 | 11.5 | 8.2 | 1893 Okt. 7.5 | 1910.0 | 338 6 43.1 | 192 39 34.1 |
| 378 Holmia . . . | März 14 | 13.1 | 12.6 | 9.1 | 1906 Aug. 21.0 | 1910.0 | 301 48 59.4 | 153 47 51.8 |
| 379 Huenna . . . | Nov. 24 | 12.1 | 12.6 | 8.5 | 1901 April 9.0 | 1910.0 | 210 5 22.9 | 177 18 16.1 |
| 380 Fiducia . . . | Juli 8 | 12.0 | 12.6 | 9.3 | 1894 Jan. 11.0 | 1910.0 | 129 58 51.0 | 237 3 32.6 |
| 381 Myrrha . . . | Nov. 21 | 12.9 | 12.4 | 8.1 | 1906 März 14.0 | 1910.0 | 266 28 42.8 | 142 59 18.2 |
| 382 Dodona . . . | Dez. 24 | 12.7 | 12.1 | 8.1 | 1906 Mai 13.0 | 1910.0 | 9 20 17.0 | 267 5 53.6 |
| 383 Janina . . . | Nov. 25 | 12.3 | 13.3 | 9.2 | 1908 Aug. 30.0 | 1910.0 | 290 32 49.4 | 313 43 28.9 |
| 384 Burdigala . . | Aug. 20 | 11.9 | 11.7 | 8.5 | 1899 April 9.5 | 1910.0 | 119 46 59.6 | 30 33 43.4 |
| 385 Ilmatar . . . | Mai 18 | 10.0 | 10.3 | 6.7 | 1904 Mai 3.0 | 1910.0 | 38 31 8.7 | 184 18 24.2 |
| 386 Siegena . . . | März 22 | 11.2 | 10.5 | 6.8 | 1906 Aug. 21.0 | 1910.0 | 317 54 55.1 | 217 39 48.2 |
| 387 Aquitania . | Sept. 9 | 8.9 | 9.8 | 6.4 | 1895 Juli 3.5 | 1910.0 | 353 6 10.2 | 153 33 34.9 |
| 388 Charybdis . | Jan. 14 | 12.0 | 11.7 | 7.8 | 1906 Juli 12.0 | 1910.0 | 338 15 19.8 | 322 41 28.4 |
| 389 Industria . . | Nov. 13 | 11.4 | 11.1 | 8.0 | 1899 Juni 18.0 | 1910.0 | 63 27 27.4 | 262 50 16.2 |
| 390 Alma . . . . | Sept. 10 | 13.7 | 13.2 | 10.0 | 1899 Mai 17.0 | 1910.0 | 88 15 19.6 | 188 31 9.3 |
| 391 Ingeborg . . | — | — | 13.2 | 10.8 | 1906 Jan. 13.0 | 1910.0 | 82 56 37.0 | 145 9 23.8 |
| 392 Wilhelmina . | — | — | 12.2 | 8.3 | 1894 Nov. 4.5 | 1910.0 | 38 39 10.1 | 141 27 52.4 |
| 393 Lampetia . . | — | — | 11.0 | 7.6 | 1904 Dez. 9.0 | 1910.0 | 130 40 16.4 | 86 49 15.1 |
| 394 Arduina . . | — | — | 13.0 | 9.6 | 1894 Nov. 23.5 | 1910.0 | 55 25 12.3 | 265 38 37.7 |
| 395 Delia . . . . | — | — | 13.0 | 9.5 | 1894 Dez. 3.5 | 1910.0 | 136 43 41.3 | 20 38 45.7 |
| 396 Aeolia . . . | — | — | 13.2 | 9.7 | 1894 Dez. 2.5 | 1910.0 | 156 42 32.8 | 18 37 12.4 |
| 397 Vienna . . . | März 18 | 13.8 | 12.6 | 9.4 | 1901 Febr. 28.0 | 1910.0 | 214 39 26.6 | 136 23 55.2 |
| 398 Admete . . . | — | — | 12.0 | 8.1 | 1895 Jan. 22.5 | 1895.0 | 187 25 12 | — — — |
| 399 Persephone . | Nov. 27 | 13.1 | 13.0 | 9.0 | 1907 Juli 7.0 | 1910.0 | 99 59 2.0 | 187 2 29.5 |
| 400 Ducrosa . . | — | — | 14.5 | 10.4 | 1895 März 18.5 | 1910.0 | 337 44 19.1 | 229 27 12.8 |

| Ω | i | φ | μ | Log. a | Autorität |
|---|---|---|---|---|---|
| 19° 36′ 14″.1 | 12° 36′ 57″.4 | 11° 31′ 54″.9 | 451″.1434 | 0.5971280 | Berberich. |
| 27 23 27.4 | 8 4 45.0 | 2 31 4.1 | 857.1587 | 0.4112969 | Berberich. |
| 65 8 10.2 | 5 58 1.3 | 4 3 32.9 | 778.9495 | 0.438998 | Antoniazzi. |
| 105 12 52.6 | 6 0 3.6 | 8 36 53.9 | 1072.5804 | 0.3463845 | Berberich. |
| 185 54 15.1 | 12 43 37.8 | 8 24 38.7 | 756.5331 | 0.4474524 | Berberich. |
| | | | | | |
| 347 59 13.4 | 10 35 26.9 | 3 27 2.7 | 636.2125 | 0.4976029 | Berberich. |
| 83 7 23.4 | 2 57 0.7 | 5 28 31.2 | 1072.8626 | 0.3463083 | Berberich. |
| 230 7 47.4 | 7 48 12.9 | 11 8 13.1 | 663.984 | 0.485231 | Berberich. |
| 94 30 31.4 | 12 43 17.6 | 5 33 23.3 | 822.7067 | 0.4231744 | Berberich. |
| 290 58 8.9 | 7 52 10.3 | 5 13 41.6 | 1001.1919 | 0.3663261 | Berberich. |
| | | | | | |
| 284 12 34.6 | 7 22 41.0 | 3 35 43.7 | 788.36429 | 0.435520 | Mader. |
| 328 25 22.6 | 23 39 56.7 | 15 37 36.8 | 635.9909 | 0.4977038 | Berberich. |
| 4 26 22.4 | 15 27 4.2 | 8 34 43.1 | 646.5817 | 0.4929222 | Berberich. |
| 219 35 36.2 | 8 57 56.2 | 4 37 44.9 | 765.5599 | 0.4440183 | Berberich. |
| 337 27 33.3 | 15 57 18.0 | 5 41 17.0 | 640.8169 | 0.4955151 | Heuer. |
| | | | | | |
| 302 13 7.9 | 5 25 21.7 | 9 54 46.1 | 1025.0162 | 0.3595172 | Berberich. |
| 210 44 55.0 | 6 39 37.8 | 4 26 14.5 | 804.920 | 0.429503 | Coniel. |
| 233 14 43.6 | 6 57 56.3 | 7 20 19.7 | 766.5723 | 0.4436357 | Berberich. |
| 172 51 58.2 | 1 36 30.6 | 11 5 26.6 | 641.8494 | 0.4950490 | Coniel. |
| 95 22 51.6 | 6 10 16.7 | 6 33 30.2 | 809.782 | 0.427760 | P. V. Neugebauer. |
| | | | | | |
| 125 23 34.0 | 12 34 45.8 | 7 15 16.3 | 620.6242 | 0.5047852 | Berberich. |
| 315 49 0.2 | 7 26 3.1 | 10 9 28.8 | 645.0171 | 0.4936236 | Berberich. |
| 93 25 27.3 | 2 39 13.5 | 9 59 26.2 | 638.8727 | 0.4963949 | Berberich. |
| 48 21 10.9 | 5 38 57.3 | 8 22 34.3 | 820.6462 | 0.423900 | Kromm. |
| 345 47 13.2 | 13 41 2.2 | 7 30 49.9 | 739.9493 | 0.4538697 | Witt. |
| | | | | | |
| 167 7 26.1 | 20 15 35.6 | 9 34 42.5 | 719.3456 | 0.4620460 | Berberich. |
| 128 46 8.2 | 17 57 51.9 | 13 47 16.3 | 782.6076 | 0.4376414 | Ogburn. |
| 355 28 53.3 | 6 28 59.6 | 3 28 2.8 | 680.7507 | 0.4780123 | Berberich. |
| 282 46 45.1 | 8 7 8.8 | 3 53 14.7 | 842.4772 | 0.416299 | Peyra. |
| 305 34 11.1 | 12 8 55.9 | 7 28 40.3 | 821.022 | 0.423768 | Coniel. |
| | | | | | |
| 212 42 11.7 | 23 2 49.0 | 18 0 7.6 | 1004.2640 | 0.3654391 | Berberich. |
| 211 52 31.8 | 15 42 21.3 | 10 13 36.9 | 694.356 | 0.472283 | Berberich. |
| 214 28 57.3 | 14 54 43.5 | 19 14 19.0 | 766.9701 | 0.4434854 | Berberich. |
| 68 21 10.6 | 6 15 39.4 | 13 11 32.3 | 771.095 | 0.441933 | Coniel. |
| 260 2 6.3 | 3 31 42.0 | 7 16 9.6 | 764.391 | 0.444461 | Capon. |
| | | | | | |
| 251 27 25.2 | 2 37 50.3 | 10 18 30.4 | 782.986 | 0.437501 | Coniel. |
| 228 43 17.7 | 12 43 55.9 | 14 23 45.2 | 830.2762 | 0.420523 | Mader. |
| 284 14 19 | 20 9 57 | — — — | 684.68 | 0.47634 | Charlois. |
| 347 18 20.6 | 13 10 0.0 | 4 6 33.0 | 665.0959 | 0.4847482 | Berberich. |
| 328 49 40.9 | 10 36 55.7 | 5 15 50.9 | 641.871 | 0.495039 | Berberich. |

| Nr. und Name | Opposition 1909 | Gr. | $m_0$ | $g$ | Epoche und Oskulation | Mittl. Äqu. | $M$ | $\omega$ |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | ° ′ ″ | ° ′ ″ |
| 401 Ottilia | Aug. 11 | 12.6 | 12.6 | 8.2 | 1905 Dez. 24.0 | 1910.0 | 220 5 45.6 | 197 2 51.2 |
| 402 Chloë | Sept. 27 | 11.2 | 10.7 | 7.7 | 1895 März 27.5 | 1910.0 | 28 44 8.7 | 12 26 25.6 |
| 403 Cyane | Mai 10 | 12.0 | 12.0 | 8.5 | 1905 Juli 17.0 | 1910.0 | 153 9 6.5 | 247 54 30.1 |
| 404 Arsinoë | Nov. 10 | 14.1 | 13.0 | 10.0 | 1905 Nov. 14.0 | 1910.0 | 214 53 8.0 | 118 51 5.8 |
| 405 Thia | Nov. 21 | 11.9 | 11.0 | 8.0 | 1895 Juli 27.0 | 1910.0 | 73 36 35.0 | 305 12 7.9 |
| 406 Erna | Mai 11 | 13.9 | 13.5 | 9.8 | 1905 Aug. 31.5 | 1910.0 | 352 15 46.2 | 34 30 49.2 |
| 407 Arachne | — | — | 11.9 | 8.7 | 1907 Juli 27.0 | 1910.0 | 290 1 11.0 | 78 11 36.7 |
| 408 Fama | März 16 | 13.9 | 13.4 | 9.2 | 1895 Okt. 15.5 | 1910.0 | 354 28 32.9 | 100 36 33.0 |
| 409 Aspasia | Jan. 25 | 10.8 | 10.7 | 7.6 | 1903 Okt. 19.5 | 1910.0 | 163 47 0.0 | 351 8 7.6 |
| 410 Chloris | — | — | 11.9 | 8.5 | 1906 April 17.5 | 1910.0 | 311 22 7.1 | 168 47 7.0 |
| 411 Xanthe | Okt. 30 | 12.7 | 12.5 | 8.7 | 1906 Jan. 24.5 | 1910.0 | 185 43 46.2 | 174 42 24.4 |
| 412 Elisabetha | — | — | 11.9 | 8.5 | 1904 Dez. 29.0 | 1910.0 | 252 59 27.0 | 92 48 23.5 |
| 413 Edburga | Febr. 20 | 13.5 | 12.2 | 9.2 | 1896 Jan. 10.5 | 1910.0 | 72 21 21.0 | 248 52 42.0 |
| 414 Liriope | Jan. 16 | 13.1 | 13.4 | 8.6 | 1898 April 24.0 | 1910.0 | 184 57 33.5 | 299 54 3.1 |
| 415 Palatia | — | — | 11.6 | 8.1 | 1900 Jan. 0.0 | 1910.0 | 351 8 15.5 | 293 39 15.0 |
| 416 Vaticana | Jan. 13 | 12.3 | 11.5 | 8.0 | 1902 Okt. 21.5 | 1910.0 | 114 14 16.4 | 195 25 17.1 |
| 417 Suevia | — | — | 12.7 | 9.2 | 1907 Sept. 25.0 | 1910.0 | 186 5 50.0 | 343 18 38.4 |
| 418 Alemannia | Nov. 22 | 12.1 | 12.6 | 9.5 | 1905 Dez. 24.0 | 1910.0 | 60 41 21.9 | 123 1 58.9 |
| 419 Aurelia | Nov. 2 | 11.7 | 11.1 | 8.0 | 1907 Jan. 28.0 | 1910.0 | 225 26 32.6 | 40 16 21.9 |
| 420 Bertholda | Sept. 30 | 12.3 | 12.3 | 7.7 | 1904 Dez. 29.0 | 1910.0 | 359 57 43.4 | 216 25 36.5 |
| 421 Zähringia | — | — | 14.2 | 11.2 | 1904 Mai 23.0 | 1910.0 | 299 14 47.2 | 205 57 54.3 |
| 422 Berolina | Juli 16 | 12.4 | 13.4 | 11.2 | 1896 Dez. 4.5 | 1910.0 | 43 3 30.9 | 333 4 23.2 |
| 423 Diotima | Febr. 21 | 11.3 | 11.2 | 7.2 | 1906 Sept. 30.0 | 1910.0 | 87 12 6.0 | 193 49 7.3 |
| 424 Gratia | Okt. 4 | 12.4 | 12.8 | 9.3 | 1903 Mai 29.0 | 1910.0 | 174 2 31.1 | 329 36 33.8 |
| 425 Cornelia | Aug. 18 | 13.3 | 13.1 | 9.4 | 1897 Jan. 20.5 | 1910.0 | 295 5 56.3 | 118 48 56.6 |
| 426 Hippo | — | — | 11.5 | 7.8 | 1897 Sept. 30.0 | 1910.0 | 172 10 55.2 | 221 45 45.3 |
| 427 Galene | — | — | 12.8 | 9.0 | 1905 Jan. 14.5 | 1910.0 | 184 20 0.0 | 5 55 16.4 |
| 428 Monachia | Febr. 14 | 13.8 | 13.5 | 11.1 | 1900 Aug. 7.5 | 1910.0 | 300 39 10.6 | 13 51 45.2 |
| 429 Lotis | Aug. 6 | 12.2 | 12.6 | 9.4 | 1905 Sept. 22.5 | 1910.0 | 331 42 21.7 | 166 36 34.0 |
| 430 Hybris | Mai 3 | 14.3 | 13.2 | 9.6 | 1898 Jan. 21.5 | 1910.0 | 15 12 12.0 | 174 56 25.2 |
| 431 Nephele | — | — | 12.6 | 8.5 | 1906 Mai 29.5 | 1910.0 | 279 57 55.7 | 209 48 3.8 |
| 432 Pythia | — | — | 11.3 | 8.7 | 1906 Febr. 2.0 | 1910.0 | 258 54 29.7 | 172 15 56.3 |
| 433 Eros | — | — | 9.7 | 10.6 | 1907 Okt. 15.0 | 1910.0 | 285 40 28.0 | 177 46 3.8 |
| 434 Hungaria | Okt. 28 | 11.9 | 11.8 | 10.4 | 1908 März 3.0 | 1910.0 | 226 7 44.9 | 123 1 51.3 |
| 435 Ella | Juni 16 | 11.9 | 12.1 | 9.3 | 1906 Nov. 9.0 | 1910.0 | 44 18 22.6 | 331 7 16.6 |
| 436 Patricia | Aug. 20 | 12.6 | 12.9 | 8.7 | 1906 Febr. 2.0 | 1910.0 | 90 41 57.0 | 23 21 16.1 |
| 437 Rhodia | Juli 6 | 11.2 | 12.7 | 10.1 | 1906 Nov. 9.0 | 1910.0 | 77 29 16.7 | 59 5 58.1 |
| 438 Zeuxo | Juni 6 | 13.0 | 11.8 | 8.8 | 1902 Nov. 23.5 | 1910.0 | 149 12 37.6 | 200 28 41.2 |
| 439 Ohio | Okt. 4 | 12.5 | 12.7 | 8.6 | 1900 Jan. 0.0 | 1910.0 | 30 57 55.5 | 231 8 28.0 |
| 440 Theodora | — | — | 13.1 | 10.9 | 1898 Okt. 18.5 | 1910.0 | 284 37 41.8 | 176 6 6.1 |

| ☊ | i | φ | μ | Log. a | Autorität |
|---|---|---|---|---|---|
| 38° 59′ 4″.6 | 6° 5′ 47″.1 | 2° 40′ 12″.6 | 583″.3070 | 0.5227396 | Berberich. |
| 129 42 3.3 | 11 50 5.2 | 6 24 49.0 | 868.759 | 0.407405 | Coniel. |
| 245 49 39.0 | 9 8 8.8 | 5 49 4.3 | 753.7444 | 0.4485217 | Berberich. |
| 92 48 21.3 | 14 3 57.8 | 11 41 13.6 | 849.07766 | 0.4140395 | Berberich. |
| 256 8 35.2 | 11 48 17.6 | 14 32 24.7 | 856.814 | 0.411412 | Coniel. |
| 317 9 4.5 | 4 14 56.5 | 10 10 53.0 | 710.727 | 0.465535 | Berberich. |
| 295 5 4.9 | 7 31 34.3 | 3 59 22.5 | 834.1108 | 0.4191886 | Berberich. |
| 299 37 51.7 | 9 6 14.2 | 7 54 31.1 | 627.210 | 0.501729 | Berberich. |
| 242 44 32.8 | 11 12 44.4 | 3 53 20.9 | 857.3857 | 0.411221 | Kromm. |
| 97 25 39.4 | 10 53 15.3 | 13 45 44.0 | 788.824 | 0.435346 | P. V. Neugebauer. |
| 108 9 35.1 | 15 36 26.1 | 6 53 35.1 | 705.017 | 0.467871 | Berberich. |
| 106 41 22.8 | 13 45 36.1 | 2 27 5.2 | 772.8598 | 0.4412713 | Berberich. |
| 105 12 38.6 | 18 52 24.9 | 19 43 23.0 | 856.555 | 0.411501 | Berberich. |
| 113 29 44.5 | 9 38 22.8 | 5 29 23.8 | 540.7539 | 0.544671 | Berberich. |
| 128 20 25.3 | 8 5 38.4 | 17 36 27.4 | 762.3720 | 0.445227 | Coddington. |
| 58 38 36.6 | 12 55 45.4 | 12 35 49.6 | 761.6611 | 0.4454966 | Boccardi. |
| 199 56 31.4 | 6 35 47.5 | 8 5 25.9 | 759.1427 | 0.4464555 | Berberich. |
| 249 11 17.0 | 6 49 0.3 | 6 49 13.7 | 850.3282 | 0.4136133 | Berberich. |
| 230 13 39.6 | 3 57 7.7 | 14 49 58.8 | 849.6718 | 0.4138369 | Berberich. |
| 246 23 45.1 | 6 37 27.3 | 2 31 41.4 | 563.6312 | 0.5326744 | Berberich. |
| 188 3 30.6 | 7 51 32.7 | 17 0 44.2 | 879.0133 | 0.404008 | Berberich. |
| 9 0 42.8 | 5 0 17.4 | 12 22 39.2 | 1066.4426 | 0.348046 | Witt. |
| 70 19 25.1 | 11 15 54.4 | 1 57 21.5 | 660.6148 | 0.4867056 | Berberich. |
| 99 33 41.2 | 8 12 20.8 | 6 22 47.8 | 768.5707 | 0.442882 | P. V. Neugebauer. |
| 61 44 9.2 | 4 4 24.3 | 3 26 47.8 | 724.2913 | 0.460062 | Pourteau. |
| 312 6 53.5 | 19 37 42.9 | 5 53 54.4 | 722.4562 | 0.460797 | Pourteau. |
| 298 57 20.1 | 5 8 14.6 | 6 53 23.4 | 693.666 | 0.4725708 | Berberich. |
| 17 29 37.6 | 6 13 32.7 | 10 15 44.4 | 1009.005 | 0.364076 | Villiger. |
| 220 16 20.5 | 9 30 55.5 | 7 5 38.8 | 842.413 | 0.416321 | Berberich. |
| 250 0 10.6 | 14 33 20.9 | 14 55 51.9 | 743.475 | 0.452494 | Berberich. |
| 117 1 48.2 | 1 49 14.5 | 10 30 56.1 | 642.247 | 0.494870 | Kreutz. |
| 88 37 32.4 | 12 7 37.7 | 8 24 45.4 | 973.3410 | 0.3744944 | Berberich. |
| 303 37 3.5 | 10 49 41.2 | 12 52 58.8 | 2015.0581 | 0.1638127 | Witt. |
| 174 44 5.3 | 22 30 11.2 | 4 13 50.9 | 1308.6711 | 0.2887841 | Berberich. |
| 23 9 37.1 | 1 50 18.7 | 8 53 54.8 | 925.2776 | 0.3891563 | Berberich. |
| 352 3 5.4 | 18 36 7.8 | 4 45 46.3 | 622.0996 | 0.5040978 | Berberich. |
| 263 43 57.1 | 7 22 52.2 | 14 16 23.4 | 962.0481 | 0.3778732 | Berberich. |
| 49 27 2.4 | 7 14 50.7 | 2 57 7.6 | 869.450 | 0.407174 | P. V. Neugebauer. |
| 202 36 22.0 | 19 7 7.5 | 4 11 33.9 | 640.6167 | 0.495606 | Coddington. |
| 292 31 23.3 | 1 35 48.6 | 6 11 19.0 | 1079.355 | 0.344562 | Coddington. |

| Nr. und Name | Opposition 1909 | Gr. | $m_0$ | $g$ | Epoche und Oskulation | Mittl. Äqu. | $M$ | $\omega$ |
|---|---|---|---|---|---|---|---|---|
| 441 Bathilde . . . | Febr. 6 | 12.2 | 12.5 | 9.0 | 1898 Dez. 14.0 | 1910.0 | 345° 51′ 15.9″ | 197° 38′ 38.4″ |
| 442 Eichsfeldia . . | — | — | 12.1 | 9.6 | 1904 Sept. 20.0 | 1900.0 | 137 33 29.2 | 82 6 9.8 |
| 443 Photographica | März 11 | 12.2 | 12.5 | 10.2 | 1906 April 3.0 | 1910.0 | 46 36 26.5 | 347 54 29.7 |
| 444 Gyptis . . . . | Juni 12 | 10.9 | 11.2 | 7.7 | 1903 Jan. 1.5 | 1910.0 | 149 27 0.8 | 151 50 26.2 |
| 445 Edna . . . . . | Mai 24 | 13.1 | 12.6 | 8.4 | 1900 Jan. 0.0 | 1910.0 | 19 1 55.0 | 77 37 38.4 |
| 446 Aeternitas . . | Dez. 22 | 11.8 | 11.4 | 7.9 | 1899 Okt. 30.0 | 1910.0 | 55 26 20.6 | 277 33 39.1 |
| 447 Valentine . . | Sept. 21 | 11.8 | 12.1 | 8.2 | 1904 Okt. 10.0 | 1910.0 | 345 51 50.7 | 316 23 5.9 |
| 448 Natalie . . . . | Juni 3 | 13.1 | 13.4 | 9.3 | 1899 Nov. 29.5 | 1910.0 | 47 48 18.5 | 292 17 12.2 |
| 449 Hamburga . . | März 2 | 11.0 | 12.0 | 9.0 | 1901 März 20.0 | 1910.0 | 38 7 28.0 | 44 40 10.3 |
| 450 Brigitta . . . | Sept. 10 | 11.7 | 13.2 | 9.3 | 1899 Nov. 9.5 | 1910.0 | 19 17 44.8 | 358 38 58.0 |
| 451 Patientia . . . | Okt. 3 | 10.5 | 10.6 | 6.6 | 1907 Mai 8.0 | 1910.0 | 146 4 45.4 | 332 26 55.3 |
| 452 Hamiltonia . | — | — | 16.7 | 13.1 | 1899 Dez. 31.0 | 1910.0 | 296 42 7.9 | 46 40 54.3 |
| 453 Tea . . . . . | — | — | 12.3 | 10.2 | 1902 Dez. 20.0 | 1910.0 | 243 0 28.6 | 217 47 49.9 |
| 454 Mathesis . . . | Juni 11 | 11.2 | 11.6 | 8.5 | 1900 April 28.5 | 1910.0 | 352 56 10.1 | 174 34 18.7 |
| 455 Bruchsalia . . | Juli 2 | 10.3 | 11.6 | 8.3 | 1907 Febr. 17.0 | 1910.0 | 124 26 46.8 | 269 25 10.9 |
| 456 Abnoba . . . | April 16 | 11.8 | 12.9 | 9.4 | 1906 Nov. 9.0 | 1910.0 | 154 20 18.2 | 2 50 8.1 |
| 457 Alleghenia . . | April 15 | 15.9 | 15.1 | 11.0 | 1900 Okt. 28.5 | 1910.0 | 351 0 33.8 | 129 8 9.7 |
| 458 Hercynia . . | Juni 4 | 14.9 | 13.1 | 9.1 | 1900 Okt. 31.0 | 1910.0 | 338 37 5.7 | 272 19 18.5 |
| 459 Signe . . . . | — | — | 13.7 | 10.5 | 1900 Okt. 22.5 | 1910.0 | 348 14 27.2 | 17 55 45.7 |
| 460 Scania . . . . | Okt. 24 | 13.3 | 13.9 | 10.5 | 1900 Okt. 22.5 | 1910.0 | 14 38 31.6 | 163 33 0.4 |
| 461 Saskia . . . . | Mai 28 | 15.1 | 14.3 | 10.1 | 1900 Okt. 22.5 | 1910.0 | 310 1 24.7 | 301 28 37.0 |
| 462 Eriphyla . . . | Juli 28 | 13.0 | 13.5 | 9.7 | 1902 Jan. 14.0 | 1910.0 | 119 30 21.2 | 248 37 32.6 |
| 463 Lola . . . . . | — | — | 14.0 | 11.4 | 1900 Okt. 31.5 | 1910.0 | 19 49 32.2 | 325 32 26.0 |
| 464 Megaira . . . | Nov. 27 | 11.3 | 12.2 | 8.6 | 1901 Jan. 9.5 | 1910.0 | 92 54 0.7 | 252 34 33.5 |
| 465 Alekto . . . . | Sept. 19 | 14.3 | 13.5 | 9.3 | 1901 Jan. 23.5 | 1910.0 | 293 53 59.6 | 272 32 36.6 |
| 466 Tisiphone . . | Juni 24 | 11.6 | 11.8 | 7.3 | 1901 Jan. 23.5 | 1910.0 | 294 33 1.3 | 263 9 0.3 |
| 467 Laura . . . . | Sept. 16 | 13.9 | 14.3 | 10.5 | 1901 Febr. 11.5 | 1910.0 | 55 52 57.2 | 91 48 52.6 |
| 468 Lina . . . . . | Juni 18 | 12.8 | 13.1 | 9.0 | 1901 Febr. 22.5 | 1910.0 | 118 51 21.4 | 331 2 19.6 |
| 469 Argentina . . | Sept. 2 | 13.4 | 12.7 | 8.5 | 1907 April 24.5 | 1907.0 | 7 31 23.1 | 201 23 58.5 |
| 470 Kilia . . . . . | Juli 20 | 12.8 | 12.9 | 10.3 | 1902 Okt. 21.0 | 1910.0 | 138 56 9.4 | 43 50 53.3 |
| 471 Papagena . . | Febr. 25 | 10.2 | 10.1 | 6.2 | 1901 Mai 18.5 | 1910.0 | 240 50 24.4 | 311 1 39.0 |
| 472 Roma . . . . | Juli 4 | 11.8 | 11.5 | 8.5 | 1908 März 23.0 | 1910.0 | 115 27 18.6 | 295 11 15.8 |
| 473 Nolli . . . . . | — | — | 13.3 | 9.5 | 1901 Febr. 13.5 | 1910.0 | 95 13 40.1 | 57 6 40.8 |
| 474 Prudentia . . | — | — | 13.0 | 10.2 | 1901 März 13.5 | 1910.0 | 223 19 18.1 | 142 45 18.1 |
| 475 Ocllo . . . . . | Mai 3 | 13.3 | 13.5 | 10.2 | 1905 Juni 17.0 | 1910.0 | 317 7 14 | 301 29 56 |
| 476 Hedwig . . . | Juni 11 | 10.9 | 11.3 | 8.1 | 1902 Dez. 10.0 | 1910.0 | 156 21 50.5 | 356 54 43.2 |
| 477 Italia . . . . | Nov. 30 | 12.1 | 12.1 | 9.5 | 1905 Nov. 3.5 | 1910.0 | 45 50 41.6 | 320 20 13.9 |
| 478 Tergeste . . . | März 16 | 10.7 | 10.9 | 7.0 | 1904 Mai 5.0 | 1910.0 | 81 38 55.7 | 240 34 25.2 |
| 479 Caprera . . . | Juni 27 | 13.5 | 13.0 | 9.6 | 1901 Nov. 15.5 | 1910.0 | 2 12 53.0 | 269 14 42.9 |
| 480 Hansa . . . . | April 3 | 11.7 | 11.5 | 8.3 | 1901 Mai 21.5 | 1910.0 | 179 11 11.8 | 196 39 14.2 |

| ☊ | i | φ | μ | Log. a | Autorität |
|---|---|---|---|---|---|
| 254° 20′ 3″.7 | 8° 7′ 11″.7 | 4° 37′ 18″.6 | 753″.698 | 0.448538 | Coniel. |
| 134 38 45.4 | 6 3 42.0 | 4 0 17.7 | 987.3699 | 0.3703512 | Thraen. |
| 175 8 46.6 | 4 13 15.5 | 2 17 26.1 | 1075.9086 | 0.3454875 | Thraen. |
| 196 16 48.3 | 10 12 42.1 | 9 58 5.9 | 768.449 | 0.442928 | Fabry. |
| 293 31 41.4 | 21 23 34.9 | 11 57 45.5 | 624.2829 | 0.503084 | Coddington. |
| 42 40 49.5 | 10 39 3.8 | 7 7 3.2 | 761.5980 | 0.4455205 | Pauly. |
| 72 27 11.5 | 4 49 5.6 | 2 40 14.9 | 686.5435 | 0.475559 | Kreutz. |
| 38 52 17.9 | 12 41 52.5 | 9 54 2.5 | 636.068 | 0.497668 | Berberich. |
| 85 58 49.8 | 3 6 4.6 | 10 3 32.4 | 870.9880 | 0.406664 | J. Möller. |
| 15 37 54.5 | 10 23 9.4 | 5 21 56.4 | 677.749 | 0.479292 | Paetsch. |
| 89 51 4.6 | 15 14 39.9 | 4 19 46.7 | 662.60440 | 0.4858348 | E. Grabowski. |
| 92 51 38.8 | 3 13 15.1 | 1 13 23.3 | 736.622 | 0.455174 | Palmer. |
| 11 34 23.4 | 5 34 28.0 | 6 14 36.0 | 1099.965 | 0.339085 | Hessen. |
| 32 41 20.7 | 6 19 18.7 | 6 19 30.5 | 832.9439 | 0.419594 | Milham. |
| 77 26 56.4 | 12 1 45.3 | 16 59 20.2 | 818.8400 | 0.4245384 | Berberich. |
| 229 44 19.0 | 14 26 8.9 | 10 26 41.9 | 763.4835 | 0.4448046 | Berberich. |
| 250 46 42.0 | 12 52 29.5 | 10 20 2.3 | 651.8517 | 0.490572 | Paetsch. |
| 136 4 46.1 | 12 36 10.3 | 14 8 5.4 | 685.852 | 0.475851 | Riem. |
| 29 49 51.8 | 10 22 44.4 | 12 19 50.0 | 832.007 | 0.419920 | Bauschinger. |
| 205 45 2.7 | 4 35 26.1 | 5 53 49.8 | 791.305 | 0.434442 | Bauschinger. |
| 156 40 56.9 | 1 22 20.6 | 11 54 22.6 | 624.571 | 0.502950 | Bauschinger. |
| 105 51 10.2 | 3 10 27.9 | 4 45 25.7 | 727.9361 | 0.4586089 | Berberich. |
| 36 34 17.3 | 13 29 59.6 | 12 42 56.7 | 960.910 | 0.378216 | Berberich. |
| 103 51 32.4 | 10 51 46.9 | 14 39 57.7 | 742.582 | 0.452841 | Berberich. |
| 305 33 19.5 | 4 37 48.6 | 13 45 49.7 | 622.160 | 0.504070 | Bauschinger. |
| 291 49 53.9 | 19 16 2.2 | 4 45 26.8 | 576.785 | 0.525995 | Berberich. |
| 323 56 20.1 | 6 24 26.3 | 6 20 17.4 | 704.103 | 0.468247 | Berberich. |
| 22 26 55.3 | 0 29 45.3 | 11 47 14.8 | 637.306 | 0.497106 | Bauschinger. |
| 335 11 17.5 | 11 45 15.4 | 8 58 51.8 | 626.309 | 0.502146 | Lamson. |
| 173 15 58.1 | 7 13 35.5 | 5 29 58.5 | 952.3542 | 0.380805 | Kreutz. |
| 84 53 56.1 | 14 51 29.5 | 13 9 45.7 | 722.6458 | 0.4607207 | Strömberg. |
| 127 1 58.8 | 15 51 45.3 | 5 37 39.1 | 875.7359 | 0.405089 | Zappa. |
| 333 35 9.8 | 27 46 32.2 | 14 48 41.2 | 690.051 | 0.474084 | Berberich. |
| 162 55 11.4 | 7 32 22.0 | 8 27 23.1 | 916.700 | 0.391853 | Berberich. |
| 35 53 33 | 18 38 42 | 22 22 4 | 848.6730 | 0.414177 | Strömgren. |
| 286 41 44.8 | 10 56 39.3 | 4 16 2.1 | 823.2035 | 0.4229996 | Strömgren. |
| 10 44 48.5 | 5 18 41.0 | 10 57 18.2 | 944.572 | 0.383182 | G. Abetti. |
| 234 47 14.1 | 13 9 38.6 | 4 58 6.5 | 677.025 | 0.4796008 | de Mello e Simas. |
| 136 31 40.9 | 8 39 23.8 | 12 42 44.4 | 788.048 | 0.435636 | Bauschinger. |
| 237 12 44.8 | 21 4 48.4 | 2 25 49.4 | 826.814 | 0.421732 | Bauschinger. |

| Nr. und Name | Opposition 1909 | Gr. | $m_0$ | $g$ | Epoche und Oskulation | Mittl. Äqu. | $M$ | $\omega$ |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | ° ′ ″ | ° ′ ″ |
| 481 Emita . . . | Sept. 6 | 11.2 | 11.6 | 8.2 | 1907 März 9.0 | 1910.0 | 104 59 56.4 | 345 50 34.8 |
| 482 Petrina . . . | Sept. 18 | 11.9 | 12.0 | 8.1 | 1902 Mai 7.5 | 1910.0 | 288 7 6.3 | 85 31 11.3 |
| 483 Seppina . . | April 25 | 12.6 | 12.5 | 7.9 | 1906 Dez. 19.0 | 1910.0 | 127 58 51.7 | 141 39 57.0 |
| 484 Pittsburghia | — | — | 12.9 | 9.7 | 1906 April 3.0 | 1910.0 | 235 12 27.0 | 185 49 40.1 |
| 485 Genua . . . | Dez. 10 | 10.4 | 11.4 | 8.0 | 1904 Okt. 3.5 | 1910.0 | 294 18 38.9 | 268 33 3.0 |
| 486 Cremona . . | März 29 | 12.7 | 13.5 | 11.0 | 1902 Mai 28.5 | 1910.0 | 16 33 54.5 | 125 7 57.5 |
| 487 Venetia . . | Febr. 11 | 12.0 | 11.8 | 8.6 | 1907 Okt. 15.5 | 1910.0 | 348 41 50.6 | 278 27 28.3 |
| 488 Kreusa . . . | Aug. 23 | 12.3 | 11.5 | 7.3 | 1906 Jan. 0.5 | 1910.0 | 302 39 32.2 | 62 35 51.0 |
| 489 Comacina . | — | — | 12.5 | 8.3 | 1902 Sept. 2.5 | 1910.0 | 139 29 9.0 | 28 29 52.4 |
| 490 Veritas . . . | Dez. 44 | 12.4 | 12.3 | 8.1 | 1902 Sept. 3.5 | 1910.0 | 348 28 27.2 | 187 46 6.0 |
| 491 Carina . . . | Dez. 41 | 12.5 | 12.5 | 8.3 | 1903 Jan. 0.0 | 1910.0 | 340 41 39.1 | 225 2 45.0 |
| 492 Gismonda . | — | — | 13.1 | 9.0 | 1902 Sept. 4.0 | 1910.0 | 12 56 28.0 | 287 27 2.1 |
| 493 Griseldis . . | — | — | 14.5 | 10.4 | 1902 Sept. 7.5 | 1910.0 | 329 46 50.6 | 38 26 36.2 |
| 494 Virtus . . . | — | — | 12.3 | 8.4 | 1902 Nov. 27.5 | 1910.0 | 144 15 51.5 | 209 9 31.0 |
| 495 Eulalia . . . | Juli 3 | 12.6 | 12.5 | 9.7 | 1902 Nov. 21.5 | 1910.0 | 20 56 40.0 | 200 0 35.6 |
| 496 Gryphia . . | — | — | 13.0 | 11.0 | 1902 Nov. 21.5 | 1910.0 | 331 47 44.7 | 240 34 28.4 |
| 497 Jva . . . . . | März 2 | 14.7 | 13.5 | 9.9 | 1902 Nov. 4.5 | 1910.0 | 20 53 34.8 | 358 54 17.3 |
| 498 Tokio . . . | April 3 | 12.2 | 11.2 | 8.1 | 1904 März 14.0 | 1910.0 | 167 52 1.5 | 237 34 18.5 |
| 499 Venusia . . | Okt. 27 | 12.1 | 13.0 | 7.7 | 1903 Jan. 31.5 | 1910.0 | 9 23 52.0 | 195 51 25.8 |
| 500 Selinur . . . | Juni 11 | 12.1 | 12.0 | 8.9 | 1903 März 4.5 | 1910.0 | 99 39 4.6 | 71 48 18.3 |
| 501 Urhixidur . | Febr. 16 | 13.6 | 13.0 | 8.8 | 1903 Jan. 19.5 | 1910.0 | 119 32 12.0 | 346 41 52.2 |
| 502 Sigune . . . | Nov. 10 | 14.2 | 13.8 | 11.2 | 1907 Febr. 17.0 | 1910.0 | 2 59 40.1 | 16 59 22.3 |
| 503 Evelyn . . . | Juli 1 | 13.2 | 12.3 | 9.0 | 1903 April 25.5 | 1910.0 | 33 37 22.7 | 38 7 0.1 |
| 504 Cora . . . . | Febr. 4 | 13.5 | 12.7 | 9.3 | 1907 Sept. 25.0 | 1910.0 | 18 9 10.2 | 244 36 55.0 |
| 505 Cava . . . . | März 15 | 12.1 | 12.0 | 8.7 | 1907 Okt. 15.0 | 1910.0 | 321 50 49.2 | 333 59 2.7 |
| 506 Marion . . . | April 22 | 12.8 | 12.5 | 8.5 | 1903 Febr. 20.5 | 1910.0 | 46 27 14.1 | 144 59 20.9 |
| 507 Laodica . . | März 6 | 12.9 | 12.5 | 8.3 | 1903 Febr. 24.5 | 1910.0 | 104 44 50.4 | 94 33 57.4 |
| 508 Princetonia | Mai 21 | 12.2 | 12.3 | 8.1 | 1903 April 25.5 | 1910.0 | 4 34 0.9 | 161 33 54.7 |
| 509 Iolanda . . | Juni 17 | 11.6 | 11.5 | 7.5 | 1906 Jan. 28.5 | 1910.0 | 39 8 50.3 | 153 10 33.8 |
| 510 Mabella . . | Dez. 33 | 13.9 | 13.0 | 9.8 | 1903 Juli 18.5 | 1910.0 | 338 1 0.1 | 87 40 58.5 |
| 511 Davida . . . | Juni 22 | 10.5 | 9.6 | 5.4 | 1903 Aug. 15.5 | 1910.0 | 182 32 43.8 | 329 19 55.8 |
| 512 Taurinensis | April 26 | 13.5 | 12.5 | 10.5 | 1903 Juli 16.5 | 1910.0 | 310 15 34.2 | 246 49 13.6 |
| 513 Centesima . | Nov. 30 | 11.9 | 12.3 | 8.4 | 1903 Okt. 24.5 | 1910.0 | 327 27 39.5 | 208 58 33.7 |
| 514 Armida . . | Nov. 8 | 12.2 | 12.4 | 8.4 | 1906 Febr. 22.0 | 1910.0 | 136 47 7.0 | 106 3 52.0 |
| 515 Athalia . . | — | — | 14.0 | 9.9 | 1903 Sept. 20.5 | 1910.0 | 317 8 30.0 | 288 44 14.8 |
| 516 Amherstia . | — | — | 11.0 | 7.7 | 1903 Sept. 26.5 | 1910.0 | 125 30 8.9 | 254 19 13.6 |
| 517 Edith . . . . | — | — | 13.1 | 9.0 | 1903 Okt. 25.5 | 1910.0 | 339 41 33.4 | 125 52 36.5 |
| 518 Halawe . . . | Jan. 29 | 14.5 | 13.4 | 10.5 | 1903 Okt. 20.5 | 1910.0 | 47 47 29.0 | 118 29 22.7 |
| 519 Sylvania . . | — | — | 12.0 | 8.5 | 1903 Okt. 26.5 | 1910.0 | 37 10 6.6 | 298 37 26.2 |
| 520 Franziska . | — | — | 13.9 | 10.0 | 1903 Okt. 27.5 | 1910.0 | 355 18 52.9 | 16 18 2.0 |

| ☊ | i | φ | μ | Log. a | Autorität |
|---|---|---|---|---|---|
| 67° 5′ 43.9″ | 9° 52′ 33.4″ | 9° 10′ 37.1″ | 782.″8688 | 0.437545 | Osten. |
| 180 20 8.8 | 14 27 21.8 | 5 18 49.8 | 683.838 | 0.476703 | P. V. Neugebauer. |
| 175 32 15.8 | 18 37 40.3 | 2 59 43.4 | 557.6847 | 0.535745 | Paetsch. |
| 127 26 45.0 | 12 29 12.2 | 3 23 42.7 | 813.1477 | 0.4265580 | Berberich. |
| 194 22 25.9 | 13 48 10.4 | 10 57 57.6 | 777.060 | 0.439700 | P. V. Neugebauer. |
| 94 11 26.5 | 11 6 47.3 | 9 20 22.6 | 977.329 | 0.373311 | Berberich. |
| 115 5 36.2 | 10 14 21.3 | 4 56 30.7 | 813.33738 | 0.4264906 | Bianchi. |
| 86 39 37.2 | 11 36 16.3 | 9 21 6.0 | 633.233 | 0.498962 | Morgan. |
| 167 37 5.1 | 13 24 57.5 | 3 47 16.7 | 634.671 | 0.498305 | Berberich. |
| 179 15 21.1 | 9 13 7.2 | 5 7 59.7 | 627.551 | 0.501572 | Münch. |
| 176 1 20.6 | 18 56 44.4 | 3 42 55.3 | 620.5529 | 0.504821 | Lassen. |
| 47 13 18.7 | 1 39 33.0 | 10 34 19.0 | 649.105 | 0.491795 | Hessen. |
| 358 41 15.8 | 15 25 42.0 | 9 17 51.5 | 641.417 | 0.495244 | Berberich. |
| 39 4 55.2 | 7 8 37.6 | 3 37 33.6 | 688.142 | 0.474886 | G. Abetti. |
| 186 27 59.0 | 2 14 13.1 | 8 28 23.6 | 910.120 | 0.393938 | P. V. Neugebauer. |
| 206 45 14.2 | 3 37 6.6 | 4 15 29.6 | 1103.453 | 0.338168 | Berberich. |
| 7 1 39.4 | 4 53 46.0 | 17 25 44.2 | 740.971 | 0.453470 | Berberich. |
| 98 1 47.9 | 9 33 4.0 | 12 47 51.8 | 823.2586 | 0.422980 | P. V. Neugebauer. |
| 256 45 22.3 | 2 0 25.2 | 13 34 32.1 | 457.624 | 0.592999 | Berberich. |
| 290 29 11.7 | 9 47 15.7 | 8 8 23.0 | 840.020 | 0.417144 | Berberich. |
| 358 4 33.5 | 20 49 30.8 | 8 14 41.4 | 630.916 | 0.500024 | P. V. Neugebauer. |
| 132 41 16.8 | 25 3 43.4 | 10 17 7.7 | 965.064 | 0.376967 | Osten. |
| 69 31 24.1 | 5 3 33.4 | 10 12 32.5 | 788.475 | 0.435479 | Liebmann. |
| 105 17 44.1 | 12 56 51.7 | 12 28 13.5 | 790.4529 | 0.434754 | Osten. |
| 91 8 46.2 | 9 47 29.5 | 14 6 50.2 | 805.8993 | 0.429151 | Osten. |
| 313 36 55.5 | 16 53 18.3 | 8 19 48.2 | 669.497 | 0.482839 | Berberich. |
| 295 14 4.1 | 9 33 26.6 | 5 47 47.4 | 632.696 | 0.499208 | Bauschinger. |
| 45 20 39.5 | 13 24 2.0 | 0 40 50.2 | 631.586 | 0.499716 | Berberich. |
| 218 26 48.9 | 15 22 46.1 | 5 34 11.6 | 660.724 | 0.486658 | P. V. Neugebauer. |
| 203 33 10.2 | 9 30 37.0 | 11 4 49.0 | 838.933 | 0.417520 | Berberich. |
| 108 50 30.7 | 15 50 35.0 | 11 8 23.3 | 630.6576 | 0.500142 | Zinner. |
| 107 9 26.7 | 8 40 0.2 | 14 23 28.7 | 1107.602 | 0.337032 | Berberich. |
| 185 49 9.3 | 9 28 24.1 | 5 0 12.4 | 677.958 | 0.479204 | P. V. Neugebauer. |
| 270 11 57.9 | 3 52 8.7 | 2 34 14.7 | 667.6424 | 0.4836418 | Berberich. |
| 122 6 47.5 | 2 0 50.7 | 10 3 36.2 | 645.556 | 0.493382 | Berberich. |
| 330 33 22.7 | 13 3 4.3 | 15 50 55.2 | 807.729 | 0.428494 | Fontana. |
| 277 45 24.7 | 3 9 58.2 | 10 6 5.7 | 641.8172 | 0.4950634 | A. Kohlschütter. |
| 203 57 40.2 | 6 37 46.0 | 12 42 29.2 | 885.773 | 0.401789 | Berberich. |
| 45 23 10.7 | 11 1 48.4 | 10 53 8.0 | 761.032 | 0.445736 | Berberich. |
| 35 5 35.2 | 11 0 18.8 | 6 0 18.2 | 680.357 | 0.478180 | Götz. |

| Nr. und Name | Opposition 1909 | Gr. | $m_0$ | $g$ | Epoche und Oskulation | Mittl. Äqu. | $M$ ° ′ ″ | $\omega$ ° ′ ″ |
|---|---|---|---|---|---|---|---|---|
| 521 Brixia | Febr. 18 | 12.1 | 12.1 | 8.7 | 1907 Aug. 16.5 | 1910.0 | 311 56 0.1 | 312 31 49.8 |
| 522 Helga | Nov. 24 | 12.4 | 12.6 | 7.7 | 1904 Jan. 10.5 | 1910.0 | 105 10 19.0 | 243 3 50.8 |
| 523 Ada | Jan. 12 | 11.8 | 12.8 | 9.0 | 1904 Jan. 27.5 | 1910.0 | 27 56 2.5 | 185 12 52.8 |
| 524 Fidelio | April 25 | 13.0 | 12.4 | 9.2 | 1904 März 18.5 | 1910.0 | 105 51 23.0 | 76 39 52.3 |
| 525 Adelaide | — | — | 13.8 | 9.3 | 1904 März 18.5 | 1910.0 | 69 22 2.8 | 281 27 50.8 |
| 526 Jena | Febr. 2 | 12.3 | 13.1 | 9.0 | 1904 April 10.5 | 1910.0 | 43 52 44.9 | 357 32 2.8 |
| 527 Euryanthe | Juni 16 | 12.0 | 12.5 | 9.2 | 1904 März 20.5 | 1910.0 | 258 56 2.1 | 199 40 42.4 |
| 528 Rezia | Jan. 3 | 12.4 | 12.4 | 7.8 | 1904 März 24.5 | 1910.0 | 156 3 49.2 | 337 43 36.1 |
| 529 Preziosa | März 17 | 13.4 | 13.0 | 9.1 | 1904 März 24.5 | 1910.0 | 138 10 8.7 | 336 38 38.9 |
| 530 Turandot | März 2 | 13.3 | 12.4 | 8.2 | 1904 April 18.5 | 1910.0 | 268 13 53.6 | 188 19 26.3 |
| 531 Zerlina | Juni 8 | 13.1 | 14.0 | 10.5 | 1904 April 12.5 | 1910.0 | 329 16 0.7 | 53 51 42.6 |
| 532 Herculina | Juni 9 | 9.3 | 9.8 | 6.3 | 1904 Mai 5.5 | 1910.0 | 18 56 34.1 | 72 59 41.2 |
| 533 Sara | April 6 | 13.2 | 13.5 | 9.6 | 1904 April 19.5 | 1910.0 | 335 57 42.3 | 58 34 53.1 |
| 534 Nassovia | April 30 | 13.2 | 12.8 | 9.2 | 1904 Mai 19.5 | 1910.0 | 128 10 32.6 | 344 51 41.9 |
| 535 Montague | Aug. 21 | 12.0 | 11.8 | 8.8 | 1904 Juni 3.5 | 1910.0 | 86 4 14.8 | 58 53 6.4 |
| 536 Merapi | März 6 | 12.2 | 11.7 | 7.0 | 1904 Mai 12.0 | 1910.0 | 254 58 24.4 | 292 45 11.7 |
| 537 Pauly | Mai 18 | 12.4 | 13.1 | 9.1 | 1904 Juli 15.5 | 1910.0 | 350 27 47.1 | 181 9 24.9 |
| 538 Friederike | Juni 10 | 13.3 | 13.2 | 9.0 | 1904 Juli 19.5 | 1910.0 | 318 36 36.4 | 222 52 26.0 |
| 539 Pamina | Nov. 5 | 11.9 | 13.1 | 9.7 | 1904 Aug. 5.5 | 1910.0 | 325 31 4.8 | 94 0 8.3 |
| 540 Rosamunde | — | — | 12.1 | 10.0 | 1904 Aug. 6.5 | 1910.0 | 132 29 40.5 | 334 20 33.8 |
| 541 Deborah | Sept. 13 | 13.0 | 12.9 | 9.4 | 1904 Aug. 4.5 | 1910.0 | 60 42 30.4 | 349 26 1.9 |
| 542 Susanna | Sept. 26 | 11.9 | 12.8 | 9.0 | 1904 Aug. 16.5 | 1910.0 | 345 9 28.2 | 212 57 44.6 |
| 543 Charlotte | Aug. 27 | 12.2 | 12.7 | 8.7 | 1904 Nov. 11.5 | 1910.0 | 348 26 5.2 | 105 5 43.9 |
| 544 Jetta | Dez. 22 | 13.4 | 12.6 | 9.5 | 1904 Nov. 6.5 | 1910.0 | 89 4 27.2 | 338 21 35.6 |
| 545 Messalina | Juli 31 | 11.1 | 12.2 | 8.0 | 1907 Mai 8.0 | 1910.0 | 222 1 28.4 | 326 21 17.4 |
| 546 Herodias | — | — | 12.1 | 9.0 | 1904 Okt. 13.5 | 1910.0 | 259 39 22.4 | 107 27 20.0 |
| 547 Praxedis | Dez. 33 | 12.1 | 12.7 | 9.2 | 1904 Nov. 17.5 | 1910.0 | 11 9 44.8 | 193 3 13.7 |
| 548 Kressida | März 4 | 13.1 | 13.2 | 10.8 | 1904 Okt. 14.5 | 1910.0 | 336 36 46.1 | 318 28 31.0 |
| 549 Jessonda | — | — | 13.5 | 10.2 | 1904 Dez. 27.5 | 1910.0 | 358 10 57.7 | 153 34 32.7 |
| 550 Senta | — | — | 11.9 | 8.8 | 1906 Febr. 22.0 | 1910.0 | 202 36 44.3 | 42 55 16.4 |
| 551 Ortrud | Nov. 27 | 12.1 | 12.8 | 9.0 | 1905 Jan. 15.5 | 1910.0 | 12 40 32.4 | 62 4 4.5 |
| 552 Sigelinde | Okt. 27 | 12.5 | 12.2 | 8.0 | 1905 Jan. 9.5 | 1910.0 | 206 12 40.7 | 329 48 30.1 |
| 553 Kundry | April 11 | 14.0 | 13.7 | 11.5 | 1905 Jan. 9.5 | 1910.0 | 16 23 30.6 | 357 50 30.4 |
| 554 Peraga | März 10 | 11.0 | 10.8 | 8.2 | 1905 Jan. 0.0 | 1910.0 | 41 20 15.3 | 124 24 50.3 |
| 555 Norma | Nov. 19 | 13.5 | 13.9 | 9.7 | 1905 Jan. 14.5 | 1910.0 | 2 59 42.0 | 350 52 47.9 |
| 556 Phyllis | Febr. 9 | 12.0 | 12.5 | 9.7 | 1905 Jan. 16.5 | 1910.0 | 15 36 17.7 | 175 3 52.5 |
| 557 Violetta | Febr. 26 | 13.2 | 13.7 | 11.0 | 1905 Jan. 14.5 | 1910.0 | 1 42 52.4 | 190 0 23.4 |
| 558 Carmen | — | — | 12.2 | 8.5 | 1905 Febr. 9.5 | 1910.0 | 41 17 34.4 | 314 40 14.0 |
| 559 Nanon | Febr. 8 | 12.4 | 12.3 | 9.0 | 1905 April 20.5 | 1910.0 | 321 9 51.5 | 125 30 48.5 |
| 560 Delila | — | — | 13.4 | 10.0 | 1905 März 13.5 | 1910.0 | 22 18 46.4 | 33 12 22.8 |

| ☊ | i | φ | μ | Log. a | Autorität |
|---|---|---|---|---|---|
| ° ′ ″ | ° ′ ″ | ° ′ ″ | ″ | | |
| 90 28 50.0 | 10 29 26.6 | 16 15 0.6 | 780.27540 | 0.4385058 | Millosevich. |
| 119 17 8.3 | 4 28 18.3 | 4 32 44.0 | 513.919 | 0.559408 | Lassen. |
| 262 13 56.0 | 4 18 47.0 | 10 8 17.0 | 694.113 | 0.472384 | Berberich. |
| 327 6 38.6 | 8 11 46.3 | 6 24 2.8 | 825.223 | 0.422290 | Berberich. |
| 125 54 33.5 | 3 15 5.6 | 21 46 42.6 | 581.342 | 0.523718 | P. V. Neugebauer. |
| 137 54 50.6 | 2 8 33.5 | 7 59 43.6 | 643.463 | 0.4943222 | Grabowski. |
| 120 46 3.7 | 9 39 56.4 | 8 38 46.0 | 787.582 | 0.435808 | P. V. Neugebauer. |
| 51 49 29.5 | 12 42 51.3 | 1 8 5.7 | 566.409 | 0.531251 | Berberich. |
| 65 53 19.6 | 11 3 40.1 | 5 45 4.2 | 676.264 | 0.479926 | P. V. Neugebauer. |
| 130 9 13.2 | 8 26 1.0 | 10 27 17.8 | 611.920 | 0.508874 | P. V. Neugebauer. |
| 197 49 0.0 | 34 33 0.7 | 10 54 44.6 | 756.474 | 0.447475 | Berberich. |
| 108 19 46.1 | 16 22 36.6 | 10 6 31.8 | 768.8133 | 0.4427907 | Götz. |
| 180 44 25.0 | 6 23 16.4 | 3 25 57.8 | 685.108 | 0.476166 | P. V. Neugebauer. |
| 93 39 56.2 | 3 19 29.4 | 5 47 47.7 | 725.560 | 0.459556 | Bauschinger. |
| 84 45 17.8 | 6 48 8.9 | 1 51 11.1 | 862.724 | 0.409423 | Dugan. |
| 60 56 14.5 | 19 24 8.1 | 5 38 12.5 | 541.600 | 0.544219 | Strömgren. |
| 121 24 30.4 | 9 46 21.3 | 13 3 35.4 | 659.540 | 0.487179 | P. V. Neugebauer. |
| 142 24 22.1 | 6 36 23.2 | 9 22 44.9 | 630.980 | 0.499994 | P. V. Neugebauer. |
| 275 38 29.8 | 6 47 21.6 | 12 20 17.6 | 782.672 | 0.437618 | P. V. Neugebauer. |
| 202 1 49.9 | 5 33 15.2 | 5 3 8.0 | 1074.237 | 0.345938 | P. V. Neugebauer. |
| 268 30 54.8 | 5 57 29.6 | 2 33 35.6 | 751.048 | 0.449560 | P. V. Neugebauer. |
| 153 36 20.7 | 12 2 13.0 | 8 13 33.7 | 715.690 | 0.463521 | Berberich. |
| 296 40 42.9 | 8 26 57.2 | 9 2 0.8 | 662.328 | 0.485955 | Berberich. |
| 298 53 17.1 | 8 19 4.4 | 8 37 38.8 | 849.653 | 0.413843 | Berberich. |
| 334 27 2.5 | 11 11 0.7 | 10 35 10.4 | 626.1741 | 0.5022077 | Berberich. |
| 22 0 59.4 | 14 54 14.2 | 6 30 4.0 | 847.004 | 0.414747 | Berberich. |
| 193 29 59.2 | 16 56 38.9 | 13 46 3.9 | 769.074 | 0.442693 | Berberich. |
| 108 6 36.2 | 3 52 2.4 | 10 43 4.5 | 1029.495 | 0.358255 | Berberich. |
| 292 25 37.8 | 3 55 44.4 | 14 55 43.6 | 805.659 | 0.429237 | Berberich. |
| 271 4 28.4 | 10 6 47.1 | 12 38 44.0 | 850.6748 | 0.4134954 | Berberich. |
| 9 2 55.5 | 0 26 16.7 | 7 2 31.5 | 694.369 | 0.472277 | Berberich. |
| 268 49 48.1 | 7 26 1.8 | 4 3 57.6 | 631.413 | 0.499796 | Berberich. |
| 71 58 47.4 | 5 17 7.4 | 6 21 40.1 | 1073.630 | 0.346101 | Berberich. |
| 295 48 6.5 | 2 56 14.3 | 8 54 53.0 | 969.164 | 0.375740 | Abetti. |
| 130 57 4.1 | 2 38 44.7 | 8 50 39.9 | 624.247 | 0.503100 | Berberich. |
| 285 55 15.3 | 5 14 18.5 | 5 46 43.4 | 915.845 | 0.392123 | Berberich. |
| 293 25 59.7 | 2 31 9.7 | 5 35 58.3 | 926.968 | 0.388628 | Berberich. |
| 144 19 47.1 | 8 21 1.0 | 2 14 1.0 | 715.481 | 0.463606 | Berberich. |
| 112 27 18.8 | 9 18 13.9 | 3 45 2.0 | 794.666 | 0.433215 | Berberich. |
| 103 45 8.8 | 8 13 39.4 | 7 5 19.7 | 778.172 | 0.439287 | Berberich. |

| Nr. und Name | Opposition 1909 | Gr. | $m_0$ | $g$ | Epoche und Oskulation | Mittl. Äqu. | $M$ | $\omega$ |
|---|---|---|---|---|---|---|---|---|
| 561 Ingwelde | — | — | 13.9 | 9.7 | 1905 März 30.5 | 1910.0 | 67° 22′ 32.6″ | 302° 12′ 58.7″ |
| 562 Salome | Jan. 17 | 13.3 | 12.9 | 9.0 | 1905 April 8.5 | 1910.0 | 241 39 15.7 | 257 21 3.7 |
| 563 Suleika | März 30 | 11.7 | 11.1 | 7.8 | 1905 Mai 30.5 | 1910.0 | 153 53 28.2 | 333 32 22.6 |
| 564 Dudu | März 14 | 14.1 | 13.7 | 10.3 | 1905 Mai 9.5 | 1910.0 | 329 11 6.8 | 211 29 56.6 |
| 565 Marbachia | Juni 19 | 13.1 | 12.9 | 10.2 | 1905 Mai 9.5 | 1910.0 | 69 45 0.0 | 290 15 39.7 |
| 566 Stereoskopia | Jan. 26 | 11.5 | 11.5 | 7.0 | 1905 Juni 1.5 | 1910.0 | 232 36 44.7 | 303 22 29.6 |
| 567 Eleutheria | Jan. 9 | 13.2 | 13.1 | 9.0 | 1905 Juni 3.5 | 1910.0 | 34 48 12.4 | 149 57 2.9 |
| 568 Cheruskia | Juni 15 | 13.0 | 12.3 | 8.6 | 1905 Aug. 21.5 | 1910.0 | 291 43 54.1 | 170 31 48.8 |
| 569 Misa | Aug. 1 | 12.9 | 12.4 | 9.2 | 1905 Juli 27.5 | 1910.0 | 271 43 15.6 | 137 54 52.4 |
| 570 [1905 *QX*] | März 20 | 13.2 | 12.7 | 8.1 | 1905 Aug. 3.5 | 1910.0 | 323 12 44.3 | 139 5 21.5 |
| 571 [1905 *QZ*] | Dez. 22 | 12.8 | 13.8 | 11.2 | 1905 Okt. 2.5 | 1910.0 | 345 47 59.8 | 23 33 36.0 |
| 572 [1905 *RB*] | Dez. 42 | 12.6 | 12.9 | 10.5 | 1905 Sept. 19.5 | 1910.0 | 339 5 16.1 | 198 29 16.4 |
| 573 [1905 *RC*] | Mai 20 | 13.5 | 13.2 | 9.2 | 1905 Sept. 19.5 | 1910.0 | 346 7 29.5 | 28 47 17.0 |
| 574 [1905 *RD*] | — | — | 14.3 | 12.0 | 1905 Okt. 29.5 | 1910.0 | 339 36 10.0 | 67 34 41.2 |
| 575 [1905 *RE*] | Sept. 8 | 12.8 | 13.5 | 10.5 | 1905 Okt. 4.5 | 1910.0 | 28 6 33.6 | 337 56 22.3 |
| 576 [1905 *RF*] | April 11 | 13.2 | 12.7 | 8.8 | 1905 Sept. 22.5 | 1910.0 | 11 14 22.6 | 31 22 7.0 |
| 577 [1905 *RH*] | April 24 | 12.7 | 13.0 | 8.9 | 1905 Okt. 30.5 | 1910.0 | 71 29 57.1 | 321 2 10.2 |
| 578 [1905 *RZ*] | Sept. 17 | 11.3 | 12.0 | 8.6 | 1905 Nov. 1.5 | 1910.0 | 100 27 0.3 | 257 57 17.2 |
| 579 [1905 *SD*] | Juli 27 | 11.1 | 11.5 | 7.6 | 1905 Nov. 23.5 | 1910.0 | 97 39 16.0 | 231 12 32.5 |
| 580 [1905 *SE*] | Juli 10 | 14.2 | 13.7 | 9.6 | 1906 Febr. 12.5 | 1910.0 | 31 51 48.2 | 315 13 19.9 |
| 581 Tauntonia | Aug. 7 | 13.7 | 13.7 | 9.4 | 1905 Dez. 24.5 | 1910.0 | 28 33 46.5 | 320 23 29.0 |
| 582 [1906 *SO*] | Dez. 27 | 11.5 | 12.6 | 9.5 | 1906 Jan. 23.5 | 1910.0 | 19 35 13.9 | 308 33 14.2 |
| 583 Klotilde | Juli 29 | 13.8 | 13.1 | 8.9 | 1906 Jan. 0.0 | 1910.0 | 295 18 26.6 | 239 22 21.6 |
| 584 [1906 *SY*] | — | — | 11.5 | 8.9 | 1906 Jan. 15.5 | 1910.0 | 84 51 19.1 | 83 0 39.3 |
| 585 [1906 *TA*] | — | — | 12.7 | 10.0 | 1906 Febr. 16.5 | 1910.0 | 7 29 29.6 | 326 1 33.1 |
| 586 [1906 *TC*] | Okt. 14 | 12.8 | 12.9 | 9.0 | 1906 Febr. 21.5 | 1910.0 | 49 39 30.5 | 218 56 14.0 |
| 587 [1906 *TF*] | — | — | 14.3 | 11.8 | 1906 März 18.5 | 1910.0 | 3 2 13.5 | 185 45 37.2 |
| 588 Achilles | Mai 12 | 15.0 | 14.2 | 7.7 | 1906 Febr. 22.5 | 1910.0 | 43 45 37.0 | 129 24 4.8 |
| 589 [1906 *TM*] | Nov. 13 | 12.5 | 12.7 | 8.6 | 1906 März 23.5 | 1910.0 | 141 5 33.1 | 210 53 18.5 |
| 590 [1906 *TO*] | Nov. 30 | 12.7 | 13.1 | 9.2 | 1906 April 2.5 | 1910.0 | 96 46 55.1 | 329 50 3.8 |
| 591 [1906 *TP*] | Dez. 39 | 13.3 | 13.5 | 10.3 | 1906 März 18.5 | 1910.0 | 346 2 9.3 | 215 31 37.9 |
| 592 [1906 *TS*] | Nov. 14 | 12.1 | 12.8 | 8.9 | 1906 März 23.5 | 1910.0 | 103 51 54.2 | 248 14 0.9 |
| 593 [1906 *TT*] | Dez. 28 | 11.1 | 12.4 | 9.1 | 1906 März 20.5 | 1910.0 | 49 9 33.4 | 27 49 39.4 |
| 594 [1906 *TW*] | — | — | 15.0 | 11.8 | 1906 März 30.5 | 1910.0 | 336 10 41.3 | 76 0 16.4 |
| 595 [1906 *TZ*] | Dez. 20 | 12.5 | 12.1 | 7.8 | 1906 Mai 18.5 | 1910.0 | 291 37 29.7 | 264 26 33.1 |
| 596 [1906 *UA*] | Dez. 17 | 12.7 | 12.0 | 8.2 | 1906 Febr. 22.5 | 1910.0 | 296 49 40.2 | 172 26 41.9 |
| 597 [1906 *UB*] | Jan. 10 | 13.7 | 12.8 | 9.5 | 1906 April 16.5 | 1910.0 | 287 19 14.6 | 273 58 52.1 |
| 598 [1906 *UC*] | — | — | 12.0 | 8.5 | 1906 April 16.5 | 1910.0 | 161 51 51.1 | 285 28 7.5 |
| 599 [1906 *UJ*] | Febr. 2 | 13.5 | 12.4 | 8.8 | 1906 April 28.5 | 1910.0 | 278 5 44.3 | 290 3 48.7 |
| 600 [1906 *UM*] | Jan. 13 | 13.3 | 13.0 | 9.8 | 1906 Juni 22.5 | 1910.0 | 12 41 3.5 | 112 42 34.8 |

| ☊ | i | φ | μ | Log. a | Autorität |
|---|---|---|---|---|---|
| 160° 33′ 57.″6 | 1° 30′ 49.″2 | 8° 42′ 31.″0 | 624.″357 | 0.503049 | Berberich. |
| 71 41 19.7 | 11 8 31.6 | 5 25 14.8 | 677.324 | 0.479473 | Berberich. |
| 84 55 34.2 | 10 20 46.8 | 13 56 47.2 | 792.084 | 0.434157 | Berberich. |
| 71 19 29.8 | 18 11 23.1 | 15 49 3.5 | 778.746 | 0.439074 | Berberich. |
| 225 54 9.2 | 10 53 58.1 | 7 18 40.0 | 931.272 | 0.387286 | Berberich. |
| 81 31 55.4 | 5 1 28.0 | 6 55 16.7 | 577.344 | 0.525714 | Berberich. |
| 59 10 18.8 | 8 59 6.6 | 4 55 30.7 | 641.903 | 0.495025 | Berberich. |
| 250 11 39.3 | 18 21 5.4 | 9 40 10.3 | 725.727 | 0.459489 | Berberich. |
| 303 23 10.5 | 1 17 41.6 | 10 39 40.4 | 819.260 | 0.424390 | Hackenberg. |
| 229 45 19.8 | 1 41 9.4 | 6 28 5.2 | 559.597 | 0.534754 | Berberich. |
| 3 24 2.5 | 5 7 16.2 | 13 48 56.0 | 969.479 | 0.375645 | Berberich. |
| 194 51 53.3 | 9 23 27.6 | 10 0 31.0 | 1008.005 | 0.364362 | Berberich. |
| 343 54 36.1 | 9 52 9.7 | 6 22 6.9 | 678.763 | 0.478859 | Berberich. |
| 338 20 14.5 | 6 10 51.8 | 11 46 23.9 | 1048.529 | 0.352951 | Berberich. |
| 349 39 6.8 | 14 54 14.6 | 6 58 24.8 | 866.098 | 0.408293 | Berberich |
| 300 12 40.5 | 10 12 1.3 | 10 59 27.9 | 672.075 | 0.481725 | Berberich. |
| 331 16 20.9 | 5 16 23.6 | 8 17 18.0 | 644.417 | 0.493893 | P. V. Neugebauer. |
| 30 35 21.5 | 6 11 45.6 | 11 9 8.7 | 775.472 | 0.440294 | Kreutz. |
| 83 21 40.4 | 11 2 4.4 | 4 35 58.0 | 677.103 | 0.479568 | P. V. Neugebauer. |
| 99 40 3.9 | 3 40 33.0 | 7 38 52.2 | 618.613 | 0.505726 | P. V. Neugebauer. |
| 103 8 5.6 | 21 55 39.1 | 2 30 51.4 | 615.963 | 0.506968 | Morgan. |
| 155 39 3.4 | 29 57 18.6 | 13 4 0.2 | 837.303 | 0.418083 | Berberich. |
| 261 26 58.1 | 8 17 15.3 | 8 31 10.8 | 629.074 | 0.500870 | Osten. |
| 282 44 25.6 | 10 50 13.4 | 14 24 37.0 | 962.562 | 0.377718 | P. V. Neugebauer. |
| 180 14 3.6 | 7 30 54.9 | 7 29 19.0 | 937.316 | 0.385414 | P. V. Neugebauer. |
| 231 1 22.4 | 1 35 36.2 | 4 27 6.5 | 674.790 | 0.480558 | P. V. Neugebauer. |
| 324 13 40.9 | 25 1 30.4 | 9 29 40.6 | 995.965 | 0.367842 | Berberich. |
| 315 34 34.0 | 10 16 37.5 | 8 10 14.6 | 294.703 | 0.720415 | Bidschof. |
| 178 44 4.8 | 10 47 14.6 | 2 54 51.2 | 640.839 | 0.495506 | P. V. Neugebauer. |
| 106 47 6.7 | 11 9 39.0 | 3 53 41.4 | 684.296 | 0.476508 | Berberich. |
| 334 51 31.5 | 12 33 50.6 | 12 1 41.4 | 807.881 | 0.428440 | Berberich. |
| 169 15 27.2 | 10 6 31.5 | 7 1 12.3 | 676.021 | 0.480030 | P. V. Neugebauer. |
| 76 18 2.1 | 17 0 16.1 | 12 17 10.9 | 799.698 | 0.431387 | Berberich. |
| 155 23 47.7 | 32 45 44.5 | 20 27 11.7 | 833.298 | 0.419471 | Berberich. |
| 25 0 50.1 | 18 21 57.6 | 4 17 47.8 | 620.181 | 0.504992 | P. V. Neugebauer. |
| 71 7 48.6 | 14 38 14.8 | 9 26 11.2 | 706.587 | 0.467228 | Berberich. |
| 36 16 35.2 | 10 17 14.7 | 10 28 40.2 | 803.648 | 0.429960 | Berberich. |
| 92 29 18.9 | 12 10 13.6 | 14 5 50.8 | 770.503 | 0.442154 | Berberich. |
| 45 33 2.7 | 16 33 46.0 | 17 15 7.2 | 768.430 | 0.442925 | Frederickson. |
| 139 38 9.7 | 10 11 18.4 | 3 8 12.2 | 817.198 | 0.425120 | Hammond und Frederickson. |

| Nr. und Name | Opposition 1909 | Gr. | $m_0$ | $g$ | Epoche und Oskulation | Mittl. Äqu. | $M$ | $\omega$ |
|---|---|---|---|---|---|---|---|---|
| 601 [1906 *UN*] . | — | — | 12.6 | 8.5 | 1906 Juli 12.0 | 1910.0 | 328° 53′ 13.″5 | 148° 32′ 23.″8 |
| 602 Marianna . . | Sept. 12 | 10.3 | 12.1 | 8.0 | 1907 Jan. 0.0 | 1910.0 | 169 19 30.4 | 41 36 46.0 |
| 603 [1906 *TJ*] . | — | — | 13.9 | 10.9 | 1907 Jan. 0.0 | 1910.0 | 82 16 11.2 | 155 30 12.8 |
| 604 [1906 *TK*] . | Aug. 9 | 11.8 | 12.4 | 8.2 | 1906 Febr. 16.5 | 1910.0 | 85 46 42.3 | 22 22 2.3 |
| 605 [1906 *UU*] . | März 17 | 14.5 | 12.9 | 9.0 | 1906 Aug. 28.5 | 1910.0 | 38 19 40.6 | 13 42 45.9 |
| 606 [1906 *VB*] . | April 29 | 13.8 | 12.9 | 9.8 | 1906 Sept. 18.5 | 1910.0 | 354 2 14.3 | 55 33 48.3 |
| 607 [1906 *VC*] . | März 21 | 12.2 | 12.6 | 9.0 | 1906 Sept. 18.5 | 1910.0 | 149 52 0.0 | 285 42 55.8 |
| 608 [1906 *VD*] . | März 15 | 14.7 | 14.1 | 10.2 | 1906 Sept. 18.5 | 1910.0 | 2 17 9.8 | 69 12 50.4 |
| 609 [1906 *VF*] . | März 4 | 13.0 | 12.8 | 8.9 | 1906 Sept. 24.5 | 1910.0 | 104 8 36.7 | 94 43 37.9 |
| 610 [1906 *VK*] . | März 26 | 16.8 | 15.6 | 11.6 | 1906 Sept. 26.5 | 1910.0 | 356 4 8.3 | 352 44 47.4 |
| 611 [1906 *VL*] . | Mai 3 | 14.1 | 12.3 | 9.8 | 1906 Nov. 2.5 | 1910.0 | 311 33 44.1 | 254 17 51.7 |
| 612 [1906 *VN*] . | Febr. 16 | 15.9 | 14.6 | 10.4 | 1906 Okt. 8.5 | 1910.0 | 24 11 21.4 | 296 32 0.0 |
| 613 [1906 *VP*] . | April 24 | 13.3 | 13.0 | 9.3 | 1906 Okt. 14.5 | 1910.0 | 334 44 46.7 | 60 58 25.9 |
| 614 [1906 *VQ*] . | Mai 26 | 14.0 | 13.7 | 10.2 | 1906 Okt. 11.5 | 1910.0 | 333 21 2.4 | 201 42 34.6 |
| 615 [1906 *VR*] . | Mai 12 | 11.9 | 12.6 | 9.4 | 1906 Okt. 11.5 | 1910.0 | 121 12 10.4 | 243 35 21.6 |
| 616 [1906 *VT*] . | Juni 20 | 13.1 | 12.7 | 9.7 | 1906 Okt. 8.5 | 1910.0 | 284 39 35.2 | 107 53 55.7 |
| 617 Patroclus . . | — | — | 14.6 | 7.9 | 1907 Dez. 14.0 | 1910.0 | 73 1 24.7 | 302 25 48.2 |
| 618 [1906 *VZ*] . | März 16 | 12.8 | 12.4 | 8.2 | 1906 Okt. 25.5 | 1910.0 | 33 7 17.6 | 235 5 21.8 |
| 619 [1906 *WC*] . | Juni 19 | 12.2 | 12.1 | 9.2 | 1906 Okt. 22.5 | 1910.0 | 35 14 23.9 | 174 46 28.1 |
| 620 Drakonia . . | Juni 14 | 12.9 | 13.6 | 10.6 | 1906 Nov. 6.5 | 1910.0 | 58 40 35.1 | 332 29 0.4 |
| 621 [1906 *WJ*] . | Mai 26 | 14.6 | 13.9 | 9.9 | 1906 Nov. 14.5 | 1910.0 | 332 9 17.0 | 29 15 48.6 |
| 622 [1906 *WP*] . | Juni 23 | 13.3 | 12.8 | 10.1 | 1906 Dez. 18.5 | 1910.0 | 19 40 58.6 | 253 50 19.2 |
| 623 [1907 *XJ*] . | Sept. 9 | 12.6 | 12.8 | 10.0 | 1907 Febr. 5.5 | 1910.0 | 51 17 38.0 | 123 13 4.8 |
| 624 Hektor . . . | April 12 | 13.0 | 13.2 | 6.4 | 1907 Febr. 10.0 | 1910.0 | 335 47 12.3 | 183 51 50.9 |
| 625 [1907 *XN*] . | Nov. 7 | 11.4 | 12.1 | 8.9 | 1907 Febr. 21.5 | 1910.0 | 180 11 33.7 | 201 26 39.0 |
| 626 [1907 *XO*] . | Aug. 11 | 10.7 | 11.4 | 8.4 | 1907 Febr. 21.5 | 1910.0 | 97 38 46.1 | 42 16 40.4 |
| 627 [1907 *XS*] . | Aug. 19 | 12.8 | 13.1 | 9.3 | 1907 März 7.5 | 1910.0 | 211 24 57.4 | 152 11 26.3 |
| 628 [1907 *XT*] . | Okt. 21 | 12.1 | 12.2 | 9.2 | 1907 März 12.5 | 1910.0 | 185 26 16.9 | 213 34 40.0 |
| 629 [1907 *XU*] . | Juli 18 | 14.7 | 13.8 | 9.7 | 1907 März 7.5 | 1910.0 | 21 17 50.2 | 31 40 42.7 |
| 630 [1907 *XW*] . | Sept. 28 | 14.1 | 13.5 | 10.3 | 1907 März 12.5 | 1910.0 | 5 28 27.0 | 42 42 27.6 |
| 631 [1907 *YJ*] . | Okt. 29 | 12.4 | 12.3 | 8.8 | 1907 April 11.5 | 1910.0 | 66 40 35.6 | 276 20 22.3 |
| 632 [1907 *YX*] . | Dez. 12 | 15.5 | 14.5 | 11.3 | 1907 April 12.5 | 1910.0 | 339 21 29.5 | 248 15 59.6 |
| 633 [1907 *ZM*] . | Dez. 11 | 13.2 | 12.9 | 9.1 | 1907 Juni 5.5 | 1910.0 | 285 16 53.7 | 181 45 9.7 |
| 634 [1907 *ZN*] . | Dez. 31 | 13.3 | 13.1 | 9.1 | 1907 Juni 5.5 | 1910.0 | 273 47 51.4 | 216 6 7.6 |
| 635 [1907 *ZS*] . | Dez. 5 | 12.3 | 12.6 | 8.5 | 1907 Juni 12.5 | 1910.0 | 227 8 54.1 | 214 50 24.0 |
| 636 [1907 *XP*] . | — | — | 12.4 | 8.7 | 1907 März 2.5 | 1907.0 | 171 51 57.8 | 294 7 53.9 |
| 637 [1907 *YE*] . | — | — | 14.0 | 9.8 | 1907 April 9.5 | 1908.0 | 8 19 36.0 | 172 25 44.1 |
| 638 [1907 *ZQ*] . | — | — | 13.5 | 10.1 | 1907 Mai 20.5 | 1908.0 | 3 29 54.8 | 125 45 12.0 |
| 639 [1907 *ZT*] . | — | — | 12.1 | 8.2 | 1907 Juli 31.5 | 1907.0 | 338 0 32.2 | 56 25 58.3 |
| 640 [1907 *ZW*] . | — | — | 13.0 | 8.8 | 1907 Okt. 22.5 | 1907.0 | 81 31 30.9 | 24 47 52.8 |

| ☊ | i | φ | μ | Log. a | Autorität |
|---|---|---|---|---|---|
| 170° 30′ 11.6″ | 16° 2′ 55.2″ | 6° 23′ 41.5″ | 640.″8147 | 0.4955162 | Svoboda. |
| 333 10 21.1 | 15 54 49.5 | 16 16 0.1 | 650.9343 | 0.490980 | Varnum. |
| 343 40 3.7 | 8 7 47.4 | 8 28 45.5 | 869.24105 | 0.407243 | Zimmer. |
| 12 28 55.2 | 4 40 7.2 | 14 12 14.1 | 627.395 | 0.501643 | Barton. |
| 343 21 36.0 | 19 40 12.9 | 7 45 29.6 | 679.007 | 0.478756 | R. Coniel. |
| 319 2 3.6 | 8 39 46.5 | 12 29 1.0 | 853.184 | 0.412642 | P. V. Neugebauer. |
| 286 5 16.5 | 10 4 37.8 | 4 32 56.8 | 737.698 | 0.454752 | P. V. Neugebauer. |
| 295 1 36.8 | 9 23 5.6 | 6 42 29.1 | 675.233 | 0.480369 | P. V. Neugebauer. |
| 166 26 48.0 | 4 9 12.5 | 1 54 54.8 | 654.955 | 0.489196 | P. V. Neugebauer. |
| 21 8 56.5 | 12 49 15.5 | 14 21 25.7 | 658.573 | 0.487602 | P. V. Neugebauer. |
| 190 21 36.3 | 13 18 9.4 | 7 48 13.9 | 686.547 | 0.475558 | Hammond. |
| 25 8 49.0 | 20 34 1.4 | 15 33 35.2 | 633.186 | 0.498984 | R. Coniel. |
| 355 47 15.7 | 7 44 34.2 | 3 9 6.9 | 712.025 | 0.465008 | P. V. Neugebauer. |
| 217 34 5.6 | 7 12 58.7 | 5 27 29.8 | 801.678 | 0.430672 | P. V. Neugebauer. |
| 14 0 14.0 | 2 46 28.3 | 6 12 12.3 | 831.720 | 0.420020 | P. V. Neugebauer. |
| 356 6 10.9 | 15 0 22.4 | 3 40 57.9 | 868.924 | 0.407350 | P. V. Neugebauer. |
| 43 28 35.9 | 22 3 15.1 | 8 14 37.9 | 300.532 | 0.714644 | Heinrich. |
| 111 30 24.9 | 17 1 46.8 | 3 27 5.4 | 622.091 | 0.504102 | P. V. Neugebauer. |
| 187 39 15.4 | 13 38 56.9 | 4 18 7.3 | 886.616 | 0.401514 | P. V. Neugebauer. |
| 0 18 18.3 | 7 46 1.1 | 7 44 31.4 | 931.23617 | 0.387298 | Stouffer. |
| 67 46 12.3 | 2 22 7.5 | 8 44 20.0 | 646.397 | 0.493006 | P. V. Neugebauer. |
| 142 24 53.6 | 8 38 44.5 | 14 8 38.8 | 944.890 | 0.383084 | Hammond. |
| 308 29 59.6 | 14 11 32.6 | 6 35 32.0 | 918.318 | 0.391343 | Kritzinger. |
| 342 0 56.6 | 18 7 18.3 | 2 8 23.6 | 292.584 | 0.722504 | Strömgren. |
| 127 50 8.5 | 12 11 42.0 | 13 20 54.2 | 828.707 | 0.421070 | P. V. Neugebauer. |
| 341 37 38.6 | 25 25 19.5 | 13 52 38.1 | 859.674 | 0.410448 | P. V. Neugebauer. |
| 142 51 33.8 | 6 24 23.7 | 3 20 20.4 | 708.465 | 0.466460 | P. V. Neugebauer. |
| 112 9 31.8 | 11 32 38.8 | 2 36 13.1 | 860.566 | 0.410150 | P. V. Neugebauer. |
| 88 10 36.6 | 9 22 49.4 | 9 42 19.8 | 636.547 | 0.497450 | P. V. Neugebauer. |
| 105 16 41.7 | 13 50 34.2 | 6 35 43.3 | 825.166 | 0.422310 | P. V. Neugebauer. |
| 225 3 1.6 | 18 50 0.0 | 4 36 8.2 | 761.090 | 0.445713 | P. V. Neugebauer. |
| 358 7 33.5 | 2 15 26.1 | 11 11 27.9 | 816.080 | 0.425516 | P. V. Neugebauer. |
| 147 54 45.4 | 10 53 4.1 | 5 53 13.8 | 672.022 | 0.481750 | P. V. Neugebauer. |
| 134 16 37.2 | 12 19 26.7 | 10 49 5.5 | 666.037 | 0.484340 | P. V. Neugebauer. |
| 184 20 14.5 | 11 1 17.2 | 4 46 31.6 | 637.791 | 0.496886 | P. V. Neugebauer. |
| 35 24 23.5 | 7 56 27.7 | 9 57 10.5 | 714.6833 | 0.463929 | Hall. |
| 357 34 2.6 | 0 20 7.2 | 7 22 8.8 | 625.5773 | 0.502484 | Snow. |
| 103 38 18.3 | 7 41 31.6 | 9 19 44.3 | 784.6983 | 0.436869 | Snow. |
| 281 26 7.9 | 8 36 14.0 | 5 43 14.7 | 681.063 | 0.477880 | P. V. Neugebauer. |
| 235 58 21.3 | 13 20 41.9 | 4 27 25.9 | 631.6072 | 0.499707 | Kobold. |

| Nr. und Name | Opposition 1909 | Gr. | $m_0$ | $g$ | Epoche und Oskulation | Mittl. Äqu. | $M$ ° | ' | " | $\omega$ ° | ' | " |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 641 [1907 *ZX*] . | — | — | 14.5 | 12.3 | 1907 Okt. 13.5 | 1907.0 | 316 | 4 | 12.8 | 16 | 14 | 28.8 |
| 642 [1907 *ZY*] . | — | — | 13.5 | 9.3 | 1907 Okt. 13.5 | 1907.0 | 249 | 13 | 36.1 | 114 | 18 | 7.8 |
| 643 [1907 *ZZ*] . | — | — | 13.9 | 9.4 | 1907 Sept. 12.5 | 1907.0 | 279 | 19 | 21.7 | 194 | 48 | 52.3 |
| 644 [1907 *AA*] . | — | — | 13.1 | 10.0 | 1907 Nov. 6.5 | 1907.0 | 22 | 28 | 46.4 | 263 | 37 | 32.2 |
| 645 [1907 *AB*] . | — | — | — | — | 1907 Nov. 4.5 | 1910.0 | 317 | 29 | 32.7 | 156 | 33 | 37.6 |
| 646 [1907 *AC*] . | — | — | 14.5 | 12.1 | 1907 Sept. 18.5 | 1907.0 | 13 | 16 | 3.9 | 35 | 25 | 9.3 |
| 647 [1907 *AD*] . | — | — | 13.5 | 10.8 | 1907 Sept. 16.5 | 1907.0 | 311 | 18 | 23.4 | 173 | 15 | 10.9 |
| 648 [1907 *AE*] . | — | — | 13.1 | 8.9 | 1907 Sept. 16.5 | 1907.0 | 285 | 3 | 26.1 | 170 | 6 | 17.3 |
| 649 [1907 *AF*] . | — | — | 15.1 | 12.1 | 1907 Sept. 11.5 | 1907.0 | 7 | 4 | 30.0 | 346 | 49 | 8.9 |
| 650 [1907 *AM*] . | — | — | 14.7 | 11.9 | 1907 Okt. 4.5 | 1907.0 | 3 | 3 | 39.3 | 176 | 4 | 27.1 |
| 651 [1907 *AN*] . | — | — | 13.5 | 9.6 | 1907 Okt. 4.5 | 1907.0 | 9 | 56 | 25.8 | 349 | 23 | 52.7 |
| 652 Jubilatrix . | — | — | 13.3 | 10.3 | 1907 Nov. 4.5 | 1907.0 | 43 | 8 | 19.9 | 274 | 14 | 57.1 |
| 653 [1907 *BK*] . | — | — | — | — | 1907 Dez. 21.5 | 1909.0 | 250 | 49 | 12.4 | 49 | 0 | 19.2 |
| 654 Zelinda . . | Juli 7 | 12.2 | 11.1 | 8.7 | 1909 Juli 16.5 | 1910.0 | 144 | 23 | 1.4 | 212 | 20 | 8.2 |
| 655 [1908 *BS*] . | — | — | 11.4 | 7.3 | 1908 Jan. 12.5 | 1908.0 | 60 | 10 | 21.2 | 107 | 4 | 28.9 |
| 656 [1908 *BU*] . | — | — | 13.6 | 9.5 | 1908 Jan. 25.5 | 1908.0 | 334 | 23 | 21.2 | 321 | 33 | 2.4 |
| 657 [1908 *BV*] . | — | — | 13.7 | 10.6 | 1908 Jan. 28.5 | 1908.0 | 311 | 49 | 19.6 | 239 | 11 | 47.2 |
| 658 [1908 *BW*]. | — | — | 13.6 | 10.0 | 1908 Febr. 9.5 | 1908.0 | 57 | 58 | 54.4 | 65 | 6 | 46.0 |
| 659 [1908 *CS*] . | — | — | 14.4 | 7.7 | 1908 März 23.5 | 1908.0 | 240 | 38 | 5.1 | 327 | 31 | 27.6 |
| [1894 *BD*] . | — | — | 13.3 | 11.3 | 1894 Nov. 1.5 | 1900.0 | 337 | 18 | 8.4 | 356 | 39 | 18.9 |
| [1902 *JT*] . | — | — | — | — | 1902 Okt. 23.5 | 1902.0 | 33 | 40 | 54.1 | 245 | 30 | 35.0 |
| [1904 *OR*] . | — | — | — | — | 1904 Okt. 3.5 | 1904.0 | 357 | 7 | 3.9 | 60 | 22 | 31.4 |
| [1906 *UT*] . | — | — | 12.3 | 8.5 | 1906 Aug. 29.5 | 1906.0 | 246 | 19 | 17.1 | 279 | 19 | 40.4 |
| [1906 *WA*] . | — | — | 13.6 | 9.5 | 1906 Okt. 25.5 | 1906.0 | 335 | 44 | 25.8 | 235 | 55 | 34.2 |
| [1908 *CV*] . | — | — | — | — | 1908 Febr. 9.0 | 1908.0 | 318 | 39 | 29 | 78 | 8 | 18 |

| ☊ | i | φ | μ | Log. a | Autorität |
|---|---|---|---|---|---|
| ° ' " | ° ' " | ° ' " | " | | |
| 40 38 27.0 | 1 43 47.5 | 7 15 52.8 | 1072.478 | 0.346412 | P. V. Neugebauer. |
| 7 21 52.5 | 8 12 23.4 | 8 2 31.3 | 627.201 | 0.501734 | P. V. Neugebauer. |
| 255 22 17.4 | 13 47 35.6 | 4 26 16.1 | 577.5812 | 0.525596 | G. Struve. |
| 108 52 41.9 | 1 2 20.0 | 9 18 25.2 | 841.850 | 0.416514 | Palisa. |
| 280 38 14.2 | 9 29 36.6 | 12 49 55.4 | 782.8137 | 0.4375654 | Franz. |
| 302 54 6.3 | 6 56 23.4 | 12 16 10.0 | 1000.933 | 0.366401 | P. V. Neugebauer. |
| 254 44 6.5 | 7 18 38.0 | 11 11 53.9 | 929.838 | 0.387734 | P. V. Neugebauer. |
| 292 41 59.2 | 9 59 11.4 | 12 44 41.0 | 624.825 | 0.502832 | P. V. Neugebauer. |
| 357 12 59.5 | 12 46 42.7 | 16 16 15.1 | 869.564 | 0.407136 | P. V. Neugebauer. |
| 215 40 20.4 | 2 33 31.8 | 10 46 12.3 | 918.478 | 0.391292 | P. V. Neugebauer. |
| 38 49 59.8 | 10 45 10.0 | 5 23 25.2 | 674.638 | 0.480624 | P. V. Neugebauer. |
| 86 15 17.8 | 15 43 16.1 | 7 19 24.1 | 868.773 | 0.407400 | Palisa. |
| 133 47 9.9 | 11 16 46.7 | 2 46 34.1 | 679.1475 | 0.478695 | Snow. |
| 278 16 24.9 | 18 9 40.2 | 13 16 33.0 | 1019.03855 | 0.3612107 | Millosevich. |
| 288 35 13.7 | 3 9 43.2 | 13 32 58.1 | 649.597 | 0.491576 | P. V. Neugebauer. |
| 186 15 21.0 | 0 26 32.3 | 7 36 45.5 | 638.477 | 0.496574 | P. V. Neugebauer. |
| 298 13 21.1 | 10 16 48.2 | 6 15 55.4 | 843.374 | 0.415991 | P. V. Neugebauer. |
| 352 11 10.1 | 1 32 13.5 | 3 18 45.4 | 732.015 | 0.456992 | P. V. Neugebauer. |
| 349 57 41.7 | 4 31 14.7 | 6 23 59.1 | 300.785 | 0.714500 | Ebell. |
| 72 35 44.3 | 3 27 48.4 | 8 33 50.4 | 1104.735 | 0.337832 | Berberich. |
| 80 11 55.9 | 2 28 7.5 | 11 54 31.0 | 637.160 | 0.497172 | Berberich. |
| 301 18 11.1 | 5 28 38.8 | 9 4 57.1 | 642.729 | 0.494652 | Berberich. |
| 180 59 31.4 | 23 18 33.6 | 2 59 20.8 | 691.888 | 0.473314 | Kritzinger. |
| 193 50 5.4 | 9 15 15.4 | 8 51 34.8 | 649.218 | 0.491744 | P. V. Neugebauer. |
| 131 54 59 | 13 42 15 | 17 46 19 | 620.44 | 0.50487 | Hirayama. |

| Planet | $m_0$ | Epoche | Argument der Breite | Ω | $i$ | $\mu$ | Log. $a$ |
|---|---|---|---|---|---|---|---|
| | | | ° ′ ″ | ° ′ ″ | ° ′ ″ | ″ | |
| 1892 *S* . . | 13.0 | 1892 Dez. 17.5 | 77 35 50 | 358 7 42 | 3 27 18 | 835.80 | 0.41860 |
| 1893 *C* . . | 13.5 | 1893 Jan. 23.5 | 167 48 0 | 321 27 42 | 3 33 48 | 1182.9 | 0.31804 |
| 1893 *U* . . | 13.0 | 1893 April 10.5 | 93 23 42 | 88 59 54 | 7 49 6 | 944.3 | 0.38330 |
| 1893 *X* . . | 13 | 1893 März 21.5 | 112 50 17 | 72 17 48 | 1 34 4 | 423.40 | 0.61550 |
| 1893 *Y* . . | 13 | 1893 April 17.5 | 79 39 46 | 124 24 8 | 0 18 4 | 549.95 | 0.53980 |
| 1894 *AW*. | 12 | 1894 Febr. 3.5 | 62 6 12 | 21 39 36 | 4 33 42 | 996.0 | 0.36781 |
| 1896 *CU*. | 12.0 | 1896 Sept. 3.5 | 100 46 25 | 243 53 26 | 5 51 46 | 692.17 | 0.47320 |
| 1898 *DW*. | 13.5 | 1898 Nov. 19.5 | 181 1 17 | 229 11 55 | 14 40 58 | 841.15 | 0.41675 |
| 1898 *DX*. | — | 1898 Nov. 19.5 | 182 5 12 | 227 3 49 | 22 26 34 | 589.39 | 0.51973 |
| 1898 *DY*. | 13.5 | 1898 Nov. 13.5 | 198 18 19 | 216 46 18 | 3 15 55 | 673.12 | 0.48128 |
| 1898 *DZ* . | 12.5 | 1898 Nov. 17.5 | 174 26 37 | 239 40 46 | 3 53 1 | 881.73 | 0.40312 |
| 1898 *EA* . | 13 | 1898 Nov. 13.5 | 181 15 2 | 227 33 5 | 27 23 43 | 508.71 | 0.56236 |
| 1900 *FE* . | 12.5 | 1900 März 6.5 | 33 49 36 | 129 37 12 | 13 13 24 | 882.1 | 0.40300 |
| 1900 *FL* . | 14.0 | 1900 Sept. 28.5 | 152 4 21 | 197 51 1 | 6 39 4 | 768.78 | 0.44280 |
| 1901 *HC* . | — | 1901 Nov. 12.5 | 202 51 49 | 193 51 50 | 16 21 55 | 701.06 | 0.46950 |
| 1901 *HD*. | — | 1901 Nov. 15.5 | 339 15 43 | 62 43 50 | 29 31 43 | 592.93 | 0.51800 |
| 1902 *HY*. | — | 1902 Juni 2.5 | 164 42 33 | 68 13 39 | 9 0 13 | 656.86 | 0.48836 |
| 1903 *LD* . | — | 1903 Jan. 18.5 | 181 6 10 | 300 36 51 | 15 33 1 | 754.21 | 0.44834 |
| 1903 *LX*[a] | — | 1903 Sept. 1.5 | 38 57 42 | 287 19 24 | 7 21 12 | 709.92 | 0.46587 |
| 1903 *LZ* . | — | 1903 Aug. 30.5 | 153 22 42 | 189 17 0 | 9 22 0 | 759.30 | 0.44640 |
| 1903 *MC*. | — | 1903 Sept. 29.5 | 185 33 38 | 167 13 30 | 26 16 59 | 564.44 | 0.53225 |
| 1903 *MD*. | — | 1903 Sept. 29.5 | 358 34 29 | 354 45 52 | 14 35 22 | 654.46 | 0.48942 |
| 1903 *MF*. | — | 1903 Sept. 29.5 | 183 25 53 | 171 9 13 | 10 55 45 | 783.09 | 0.43746 |
| 1903 *MM*. | — | 1903 Okt. 14.5 | 181 15 12 | 195 37 36 | 4 56 48 | 714.71 | 0.46392 |
| 1903 *MN*. | — | 1903 Okt. 24.5 | 350 9 6 | 39 35 0 | 7 51 54 | 945.90 | 0.38276 |
| 1903 *NF* . | — | 1903 Dez. 18.5 | 216 0 54 | 230 11 48 | 15 16 54 | 849.85 | 0.41380 |
| 1903 *NG* . | — | 1903 Nov. 14.5 | 178 3 42 | 230 52 18 | 8 38 12 | 649.73 | 0.49152 |
| 1904 *OD* . | — | 1904 Mai 14.5 | 186 3 33 | 42 38 38 | 12 53 11 | 610.50 | 0.50954 |
| 1904 *OP* . | — | 1904 Sept. 5.5 | 45 37 34 | 293 4 6 | 13 37 4 | 735.20 | 0.45572 |
| 1904 *QW*. | — | 1904 April 4.5 | 70 11 57 | 108 54 13 | 11 14 22 | 716.53 | 0.46318 |
| 1905 *RN*. | — | 1905 Okt. 24.5 | 63 34 0 | 336 9 12 | 3 12 42 | 828.93 | 0.42100 |
| 1906 *SJ* . | — | 1906 Febr. 3.0 | 180 10 15 | 300 28 49 | 10 37 42 | 669.39 | 0.48288 |
| 1906 *UK*. | 12.9 | 1906 Mai 14.5 | 102 21 52 | 131 2 1 | 12 20 4 | 776.69 | 0.43984 |
| 1906 *VW* | — | 1906 Nov. 11.5 | 190 13 12 | 207 30 36 | 9 19 42 | 799.40 | 0.43150 |
| 1906 *VX*. | — | 1906 Nov. 11.5 | 350 31 6 | 46 39 30 | 7 44 30 | 588.99 | 0.51994 |
| 1906 *WD*. | — | 1906 Okt. 26.5 | 195 49 0 | 203 7 0 | 48 8 0 | 387 | 0.6595 |
| 1907 *XV*. | — | 1907 März 12.5 | 68 19 30 | 82 27 36 | 10 52 24 | 567.56 | 0.53000 |
| 1907 *YR*. | — | 1907 April 18.5 | 85 46 47 | 97 13 3 | 6 59 40 | 470.40 | 0.58510 |

Mittleres Äquinoktium des Jahresanfangs.

| Nr. und Name | Tag der Opp. | Gr. | 12h Mittlere Zeit | | | | | Letzte Beobachtung |
|---|---|---|---|---|---|---|---|---|
| | | | AR. | Dekl. | Δα | Δδ | Log. Δ | |
| | | | h m | ° ′ | m | ′ | | |
| 528 Rezia . . . . . | Jan. 3 | 12.4 | 6 54.8 | +36 41 | 0.9 | +3 | 0.383 | 1907 |
| 311 Claudia . . . . | 3 | 12.9 | 6 56.4 | +24 38 | 1.0 | +2 | 0.274 | 1905 |
| 107 Camilla . . . . | 3 | 10.9 | 6 58.4 | + 9 18 | 0.8 | +2 | 0.359 | 1907 |
| 209 Dido . . . . . | 4 | 11.9 | 6 59.0 | +32 53 | 1.0 | +1 | 0.370 | 1901 |
| 197 Arete . . . . . | 4 | 13.3 | 7 2.8 | +27 34 | 1.0 | +4 | 0.313 | 1907 |
| *153 Hilda . . . . . | 4 | 13.4 | 7 3.0 | +14 15 | 0.7 | 0 | 0.559 | 1907 |
| 304 Olga . . . . . | 4 | 13.1 | 7 3.2 | + 2 45 | 1.0 | +5 | 0.249 | 1906 |
| 214 Aschera . . . | 5 | 11.9 | 7 7.5 | +27 22 | 1.1 | +1 | 0.188 | 1905 |
| 33 Polyhymnia . | 6 | 12.3 | 7 8.5 | +25 20 | 1.0 | +1 | 0.324 | 1904 |
| 81 Terpsichore . | 6 | 11.0 | 7 9.8 | +35 28 | 1.1 | 0 | 0.168 | 1903 |
| 222 Lucia . . . . . | 7 | 13.5 | 7 16.1 | +23 41 | 0.9 | +2 | 0.401 | 1907 |
| 567 Eleutheria . . | 9 | 13.2 | 7 24.9 | +32 3 | 0.9 | +4 | 0.338 | 1905 |
| 187 Lamberta . . . | 10 | 11.5 | 7 26.7 | +38 36 | 1.2 | +3 | 0.256 | 1906 |
| 12 Victoria . . . . | 10 | 10.8 | 7 27.2 | +11 20 | 1.1 | +1 | 0.265 | 1907 |
| 597 [1906 *UB*] . . | 10 | 13.7 | 7 30.0 | +36 16 | 1.1 | +3 | 0.337 | 1906 |
| 44 Nysa . . . . . | 10 | 8.8 | 7 30.9 | +19 17 | 1.0 | +5 | 0.028 | 1906 |
| 289 Nenetta . . . . | 11 | 12.5 | 7 33.8 | +12 9 | 0.9 | +3 | 0.285 | 1906 |
| 523 Ada . . . . . . | 12 | 11.8 | 7 33.8 | +18 5 | 0.9 | 0 | 0.175 | 1907 |
| 600 [1906 *UM*] . . | 13 | 13.3 | 7 38.0 | +14 28 | 0.9 | +5 | 0.253 | 1907 |
| 286 Iclea . . . . . | 13 | 13.3 | 7 38.0 | + 6 13 | 0.8 | +6 | 0.348 | 1905 |
| 251 Sophia . . . . | 13 | 13.2 | 7 38.5 | +10 25 | 0.8 | +5 | 0.268 | 1904 |
| 416 Vaticana . . . | 13 | 12.3 | 7 41.0 | +36 33 | 1.1 | +5 | 0.351 | 1907 |
| 324 Bamberga . . | 14 | 9.7 | 7 43.4 | +32 24 | 1.3 | −1 | 0.203 | 1906 |
| 388 Charybdis . . | 14 | 12.0 | 7 44.2 | +29 47 | 1.0 | +1 | 0.341 | 1905 |
| 338 Budrosa . . . | 15 | 12.1 | 7 46.0 | +20 12 | 0.9 | 0 | 0.283 | 1904 |
| 100 Hekate . . . . | 15 | 12.6 | 7 46.0 | +18 34 | 0.8 | +3 | 0.414 | 1907 |
| 414 Liriope . . . . | 16 | 13.1 | 7 55.3 | +21 33 | 0.8 | +5 | 0.370 | 1896 |
| 562 Salome . . . . | 17 | 13.3 | 7 59.1 | +32 4 | 0.9 | +5 | 0.357 | 1907 |
| 276 Adelheid . . . | 18 | 11.3 | 8 1.3 | −12 6 | 0.8 | +1 | 0.254 | 1907 |
| 48 Doris . . . . . | 18 | 10.6 | 8 2.0 | +11 27 | 0.8 | +4 | 0.293 | 1907 |
| 362 Havnia . . . . | 18 | 11.0 | 8 2.8 | +33 57 | 1.1 | +4 | 0.190 | 1905 |
| 279 Thule . . . . . | 19 | 14.2 | 8 6.2 | +22 22 | 0.8 | +1 | 0.560 | 1906 |
| 326 Tamara . . . . | 20 | 12.2 | 8 7.4 | +57 4 | 1.8 | +3 | 0.264 | 1907 |
| 261 Prymno . . . . | 20 | 11.4 | 8 7.8 | +22 55 | 1.1 | +5 | 0.072 | 1900 |
| 409 Aspasia . . . . | 25 | 10.8 | 8 31.8 | + 2 6 | 1.0 | +1 | 0.219 | 1907 |
| 566 Stereoskopia . | 26 | 11.5 | 8 33.7 | +23 49 | 0.8 | +4 | 0.380 | 1905 |
| 376 Geometria . . | 27 | 12.3 | 8 37.5 | +17 43 | 1.1 | +1 | 0.178 | 1907 |
| 518 Halawe . . . . | 29 | 14.5 | 8 45.4 | + 8 21 | 0.9 | +4 | 0.319 | 1903 |
| 348 May . . . . . . | 30 | 12.6 | 8 50.0 | +27 20 | 0.9 | +6 | 0.260 | 1905 |
| 67 Asia . . . . . . | 30 | 12.2 | 8 50.2 | + 8 46 | 1.2 | +4 | 0.277 | 1907 |

| Nr. und Name | Tag der Opp. | Gr. | 12^h Mittlere Zeit AR. | Dekl. | Δα | Δδ | Log. Δ | Letzte Beob-achtung |
|---|---|---|---|---|---|---|---|---|
| | | | h m | ° ′ | m | ′ | | |
| 102 Miriam . . . . | Jan. 31 | 13.4 | 8 55.7 | + 9 42 | 1.1 | + 4 | 0.319 | 1902 |
| 266 Aline . . . . . | Febr. 1 | 12.0 | 9 1.1 | − 3 35 | 0.8 | + 4 | 0.293 | 1902 |
| 526 Jena . . . . . | 2 | 12.3 | 9 1.4 | +16 40 | 0.8 | + 4 | 0.231 | 1907 |
| 599 [1906 *UJ*] . . | 2 | 13.5 | 9 3.1 | +40 39 | 1.1 | + 4 | 0.400 | 1907 |
| 64 Angelina . . . | 3 | 9.7 | 9 5.4 | +16 33 | 0.9 | + 3 | 0.133 | 1905 |
| 174 Phaedra . . . | 3 | 12.0 | 9 7.8 | +21 33 | 1.0 | + 1 | 0.311 | 1907 |
| 504 Cora . . . . . | 4 | 13.5 | 9 11.2 | +25 41 | 0.9 | + 7 | 0.335 | 1907 |
| 89 Julia . . . . . | 4 | 10.8 | 9 12.8 | +14 16 | 1.1 | 0 | 0.277 | 1907 |
| 61 Danaë . . . . | 5 | 11.5 | 9 14.3 | +25 35 | 1.0 | 0 | 0.382 | 1907 |
| 267 Tirza . . . . . | 5 | 14.3 | 9 17.7 | +24 3 | 0.9 | + 5 | 0.294 | 1907 |
| 320 Katharina . . | 6 | 14.6 | 9 20.9 | + 1 41 | 0.8 | + 4 | 0.358 | 1907 |
| 441 Bathilde . . . | 6 | 12.2 | 9 21.8 | + 3 6 | 0.9 | + 3 | 0.225 | 1907 |
| 188 Menippe . . . | 7 | 13.9 | 9 23.1 | − 2 5 | 0.8 | + 3 | 0.358 | 1897 |
| 559 Nanon . . . . | 8 | 12.4 | 9 27.7 | +21 41 | 0.9 | + 7 | 0.242 | 1907 |
| 366 Vincentina . . | 8 | 12.6 | 9 27.8 | +23 0 | 0.9 | + 2 | 0.371 | 1906 |
| 556 Phyllis . . . . | 9 | 12.0 | 9 30.0 | + 9 8 | 1.0 | + 2 | 0.108 | 1907 |
| 63 Ausonia . . . | 9 | 10.3 | 9 31.7 | +17 45 | 1.1 | + 3 | 0.200 | 1907 |
| 487 Venetia . . . . | 11 | 12.0 | 9 39.7 | +21 29 | 0.9 | + 8 | 0.241 | 1907 |
| 142 Polana . . . . | 12 | 11.8 | 9 42.4 | +11 36 | 1.0 | + 4 | 0.122 | 1903 |
| 428 Monachia . . . | 14 | 13.8 | 9 51.1 | +21 23 | 1.1 | + 4 | 0.158 | 1897 |
| 166 Rhodope . . . | 14 | 12.7 | 9 53.5 | +18 3 | 1.0 | + 8 | 0.260 | 1897 |
| 367 Amicitia . . . | 15 | 11.9 | 9 54.6 | +18 10 | 1.0 | + 7 | 0.011 | 1907 |
| 223 Rosa . . . . . | 15 | 12.7 | 9 55.4 | +15 52 | 0.9 | + 4 | 0.254 | 1904 |
| 501 Urhixidur . . . | 16 | 13.6 | 9 57.1 | +30 40 | 1.0 | + 1 | 0.417 | 1906 |
| 612 [1906 *VN*] . . | 16 | 15.9 | 9 59.9 | +38 31 | 0.9 | + 3 | 0.490 | 1906 |
| 325 Heidelberga . | 18 | 12.2 | 10 5.2 | +15 40 | 0.9 | + 2 | 0.328 | 1906 |
| 175 Andromache . | 18 | 13.2 | 10 6.1 | +15 31 | 0.8 | + 4 | 0.457 | 1908 |
| 521 Brixia . . . . . | 18 | 12.1 | 10 7.7 | +26 8 | 0.9 | + 6 | 0.241 | 1907 |
| 306 Unitas . . . . | 18 | 11.5 | 10 8.5 | +13 9 | 1.0 | + 8 | 0.228 | 1907 |
| 205 Martha . . . . | 18 | 12.8 | 10 8.7 | − 3 32 | 0.8 | + 6 | 0.272 | 1907 |
| 249 Ilse . . . . . . | 19 | 14.4 | 10 10.5 | +12 37 | 1.1 | + 3 | 0.228 | 1907 |
| 413 Edburga . . . | 20 | 13.5 | 10 11.8 | +30 25 | 0.9 | + 7 | 0.367 | 1896 |
| 423 Diotima . . . . | 21 | 11.3 | 10 17.5 | +27 51 | 0.9 | + 5 | 0.332 | 1907 |
| 218 Bianca . . . . | 21 | 11.2 | 10 18.2 | + 2 44 | 0.8 | +10 | 0.196 | 1904 |
| 43 Ariadne . . . | 22 | 10.5 | 10 19.7 | + 4 26 | 1.0 | + 6 | 0.139 | 1907 |
| 369 Aëria . . . . . | 25 | 13.2 | 10 32.2 | +26 49 | 0.9 | + 7 | 0.282 | 1907 |
| 94 Aurora . . . . | 25 | 11.4 | 10 34.0 | +15 15 | 0.8 | + 3 | 0.347 | 1908 |
| 471 Papagena . . . | 25 | 10.2 | 10 34.5 | +30 36 | 0.9 | + 6 | 0.322 | 1907 |
| 557 Violetta . . . . | 26 | 13.2 | 10 37.5 | + 5 15 | 0.9 | + 5 | 0.099 | 1905 |
| 124 Alkeste . . . . | 26 | 10.2 | 10 37.7 | + 6 6 | 1.1 | + 7 | 0.209 | 1905 |

| Nr. und Name | Tag der Opp. | Gr. | 12ʰ Mittlere Zeit AR. | Dekl. | Δα | Δδ | Log. Δ | Letzte Beob-achtung |
|---|---|---|---|---|---|---|---|---|
| | | | h m | ° ′ | m | ′ | | |
| 281 Lucretia . . . | Febr. 27 | 13.3 | 10 43.2 | +16 24 | 1.1 | +5 | 0.104 | 1906 |
| 145 Adeona . . . . | 28 | 10.7 | 10 43.3 | +30 52 | 0.9 | +5 | 0.145 | 1901 |
| *149 Medusa . . . . | 28 | 12.2 | 10 45.4 | + 7 56 | 1.0 | +7 | 0.088 | 1907 |
| 449 Hamburga . . | März 2 | 11.0 | 10 51.3 | +13 16 | 1.0 | +6 | 0.064 | 1907 |
| 497 Iva . . . . . . | 2 | 14.7 | 10 51.8 | +10 31 | 0.8 | +4 | 0.408 | 1902 |
| 530 Turandot . . . | 2 | 13.3 | 10 52.7 | +13 21 | 0.7 | +6 | 0.442 | 1908 |
| 260 Huberta . . . | 4 | 14.4 | 10 58.1 | + 5 40 | 1.1 | +5 | 0.458 | 1906 |
| 308 Polyxo . . . . | 4 | 11.1 | 11 0.4 | + 4 8 | 0.8 | +6 | 0.258 | 1907 |
| 609 [1906 *VF*] . . | 4 | 13.0 | 11 0.4 | + 6 6 | 0.7 | +6 | 0.322 | 1906 |
| 548 Kressida . . . | 4 | 13.1 | 11 1.5 | +12 22 | 1.0 | +7 | 0.100 | 1904 |
| 253 Mathilde . . . | 5 | 14.6 | 11 1.9 | + 3 32 | 0.8 | +6 | 0.368 | 1906 |
| *108 Hecuba . . . . | 5 | 11.1 | 11 2.7 | + 7 9 | 0.8 | +3 | 0.274 | 1908 |
| 536 Merapi . . . . | 6 | 12.2 | 11 7.1 | +33 39 | 0.8 | +3 | 0.466 | 1908 |
| 507 Laodica . . . . | 6 | 12.9 | 11 7.9 | − 6 17 | 0.8 | +4 | 0.380 | 1908 |
| 349 Dembowska . | 7 | 10.2 | 11 10.8 | +15 15 | 0.9 | +4 | 0.335 | 1904 |
| 298 Baptistina . . | 9 | 13.0 | 11 16.4 | + 9 20 | 1.1 | +1 | 0.032 | 1907 |
| *121 Hermione . . . | 9 | 11.9 | 11 19.6 | +15 19 | 0.7 | +4 | 0.469 | 1908 |
| 554 Peraga . . . . | 10 | 11.0 | 11 22.4 | − 0 21 | 0.9 | +5 | 0.165 | 1907 |
| 119 Althaea . . . . | 10 | 11.0 | 11 24.0 | − 1 22 | 0.8 | +7 | 0.272 | 1907 |
| 274 Philagoria . . | 11 | 13.0 | 11 26.7 | + 9 41 | 0.8 | +6 | 0.241 | 1905 |
| 443 Photographica | 11 | 12.2 | 11 27.7 | + 2 53 | 0.9 | +4 | 0.055 | 1906 |
| * 47 Aglaja . . . . | 11 | 11.7 | 11 27.8 | + 5 18 | 0.8 | +4 | 0.338 | 1908 |
| 114 Kassandra . . | 11 | 11.2 | 11 28.3 | + 4 26 | 0.8 | +7 | 0.123 | 1903 |
| 564 Dudu . . . . . | 14 | 14.1 | 11 38.4 | +31 53 | 1.0 | +5 | 0.300 | 1905 |
| 378 Holmia . . . . | 14 | 13.1 | 11 38.7 | − 7 4 | 0.8 | +6 | 0.320 | 1906 |
| 608 [1906 *VD*] . . | 15 | 14.7 | 11 39.6 | −10 43 | 0.8 | +4 | 0.379 | 1906 |
| 505 Cava . . . . . | 15 | 12.1 | 11 41.7 | +18 29 | 0.9 | +6 | 0.239 | 1907 |
| 618 [1906 *VZ*] . . | 16 | 12.8 | 11 42.5 | +24 5 | 0.7 | +6 | 0.388 | 1906 |
| 408 Fama . . . . . | 16 | 13.9 | 11 44.7 | −10 19 | 0.7 | +4 | 0.398 | 1906 |
| 478 Tergeste . . . | 16 | 10.7 | 11 44.8 | −16 6 | 0.7 | +7 | 0.284 | 1907 |
| *198 Ampella . . . | 17 | 12.2 | 11 46.3 | −13 34 | 0.9 | +5 | 0.310 | 1908 |
| 529 Preziosa . . . | 17 | 13.4 | 11 47.7 | +18 5 | 0.8 | +4 | 0.348 | 1904 |
| 605 [1906 *UU*] . . | 17 | 14.5 | 11 49.0 | − 6 10 | 0.8 | +2 | 0.494 | 1906 |
| 397 Vienna . . . . | 18 | 13.8 | 11 49.0 | −13 31 | 0.8 | +7 | 0.364 | 1906 |
| 192 Nausikaa . . . | 18 | 10.4 | 11 49.6 | − 1 43 | 0.9 | +4 | 0.275 | 1907 |
| 200 Dynamene . . | 18 | 11.5 | 11 52.1 | − 5 32 | 0.9 | +4 | 0.290 | 1908 |
| 570 [1905 *QX*] . . | 20 | 13.2 | 11 58.4 | − 1 43 | 0.7 | +4 | 0.449 | 1908 |
| * 26 Proserpina . . | 20 | 10.2 | 11 59.5 | + 4 48 | 0.9 | +5 | 0.183 | 1907 |
| 607 [1906 *VC*] . . | 21 | 12.2 | 12 3.2 | −17 33 | 0.8 | +4 | 0.224 | 1906 |
| 386 Siegena . . . . | 22 | 11.2 | 12 5.1 | + 6 30 | 0.7 | +9 | 0.366 | 1906 |

| Nr. und Name | Tag der Opp. | Gr. | 12$^h$ Mittlere Zeit AR. | Dekl. | Δα | Δδ | Log. Δ | Letzte Beob-achtung |
|---|---|---|---|---|---|---|---|---|
| | | | h m | ° ′ | m | | | |
| 133 Cyrene . . . . | März 22 | 10.8 | 12 5.2 | − 8 46 | 0.8 | + 3 | 0.261 | 1908 |
| 156 Xanthippe . . | 24 | 10.0 | 12 11.5 | −17 15 | 0.7 | + 8 | 0.080 | 1906 |
| 49 Pales . . . . . | 26 | 12.0 | 12 18.7 | − 6 36 | 0.7 | + 4 | 0.428 | 1908 |
| 610 [1906 *VK*] . . | 26 | 16.8 | 12 19.1 | + 3 41 | 0.8 | + 3 | 0.450 | 1906 |
| 51 Nemausa . . . | 26 | 9.4 | 12 19.9 | + 0 55 | 0.8 | +12 | 0.084 | 1907 |
| 361 Bononia . . . | 27 | 13.1 | 12 22.8 | + 2 21 | 0.7 | + 2 | 0.446 | 1906 |
| 23 Thalia . . . . | 27 | 9.5 | 12 23.5 | +15 46 | 1.0 | + 1 | 0.093 | 1905 |
| 202 Chryseïs . . . | 27 | 10.3 | 12 23.8 | + 8 3 | 0.8 | + 7 | 0.271 | 1904 |
| 486 Cremona . . . | 29 | 12.7 | 12 33.3 | +19 44 | 0.9 | + 6 | 0.031 | 1902 |
| 563 Suleika . . . . | 30 | 11.7 | 12 35.3 | +12 51 | 0.9 | + 6 | 0.301 | 1907 |
| *164 Eva . . . . . . | 30 | 13.2 | 12 35.7 | +31 48 | 0.9 | + 3 | 0.429 | 1905 |
| 150 Nuwa . . . . . | 30 | 12.2 | 12 36.9 | − 4 59 | 0.7 | + 5 | 0.370 | 1908 |
| * 90 Antiope . . . . | 30 | 11.9 | 12 36.9 | − 0 54 | 0.7 | + 5 | 0.367 | 1908 |
| 139 Juewa . . . . | April 2 | 9.9 | 12 45.9 | − 8 53 | 1.0 | 0 | 0.130 | 1907 |
| 480 Hansa . . . . | 3 | 11.7 | 12 49.1 | −28 2 | 0.8 | +10 | 0.243 | 1906 |
| 498 Tokio . . . . | 3 | 12.2 | 12 49.6 | + 9 57 | 0.9 | + 5 | 0.324 | 1908 |
| 14 Irene . . . . . | 5 | 8.7 | 12 54.7 | +11 43 | 0.9 | + 3 | 0.080 | 1907 |
| 533 Sara . . . . . | 6 | 13.2 | 12 59.9 | − 3 39 | 0.7 | + 6 | 0.269 | 1908 |
| 296 Phaetusa . . . | 8 | 14.1 | 13 8.5 | − 4 16 | 1.0 | + 6 | 0.197 | 1902 |
| * 42 Isis . . . . . . | 9 | 10.9 | 13 11.0 | + 6 14 | 1.0 | + 5 | 0.221 | 1906 |
| * 53 Kalypso . . . . | 9 | 11.6 | 13 13.4 | − 0 31 | 0.9 | + 6 | 0.214 | 1907 |
| * 76 Freia . . . . . | 10 | 12.2 | 13 15.9 | − 8 38 | 0.7 | + 5 | 0.405 | 1908 |
| 360 Carlova . . . . | 10 | 12.5 | 13 16.3 | + 7 55 | 0.7 | + 6 | 0.374 | 1908 |
| 553 Kundry . . . . | 11 | 14.0 | 13 19.5 | − 0 34 | 1.0 | + 5 | 0.134 | 1905 |
| 576 [1905 *RF*] . . | 11 | 13.2 | 13 19.6 | −24 6 | 0.8 | + 3 | 0.364 | 1905 |
| 75 Eurydike . . . | 11 | 12.4 | 13 20.5 | −11 33 | 0.9 | + 4 | 0.314 | 1907 |
| 624 Hektor . . . . | 12 | 13.0 | 13 21.3 | −26 8 | 0.6 | + 2 | 0.619 | 1908 |
| 161 Athor . . . . . | 12 | 11.1 | 13 22.7 | − 9 49 | 1.1 | + 2 | 0.157 | 1908 |
| * 37 Fides . . . . . | 13 | 11.0 | 13 28.5 | −10 42 | 0.9 | + 4 | 0.286 | 1908 |
| 343 Ostara . . . . | 14 | 14.6 | 13 28.5 | − 7 52 | 0.9 | + 4 | 0.279 | 1903 |
| 457 Alleghenia . . | 15 | 15.9 | 13 30.8 | −22 31 | 0.8 | + 6 | 0.424 | 1900 |
| 58 Concordia . . | 15 | 11.3 | 13 32.2 | − 3 40 | 0.8 | + 6 | 0.200 | 1907 |
| 203 Pompeja . . . | 15 | 12.0 | 13 35.3 | −13 10 | 0.8 | + 4 | 0.277 | 1908 |
| 310 Margarita . . . | 16 | 12.8 | 13 35.3 | −12 16 | 0.8 | + 6 | 0.160 | 1891 |
| 456 Abnoba . . . . | 16 | 11.8 | 13 38.0 | −20 17 | 0.7 | +12 | 0.120 | 1906 |
| *241 Germania . . . | 18 | 11.6 | 13 44.9 | −18 21 | 0.8 | + 5 | 0.355 | 1908 |
| 221 Eos . . . . . . | 18 | 11.6 | 13 46.8 | + 3 58 | 0.7 | + 6 | 0.339 | 1903 |
| 206 Hersilia . . . . | 18 | 12.1 | 13 46.8 | − 5 30 | 0.8 | + 5 | 0.251 | 1906 |
| *270 Anahita . . . . | 19 | 11.4 | 13 48.2 | −14 16 | 1.0 | + 6 | 0.126 | 1908 |
| 293 Brasilia . . . . | 20 | 12.5 | 13 50.7 | + 4 38 | 1.0 | 0 | 0.228 | 1890 |

| Nr. und Name | Tag der Opp. | Gr. | 12h Mittlere Zeit AR. | Dekl. | Δα | Δδ | Log. Δ | Letzte Beob-achtung |
|---|---|---|---|---|---|---|---|---|
| | | | h m | ° ′ | m | ′ | | |
| 22 Kalliope . . . | April 20 | 10.3 | 13 54.1 | + 2 7 | 0.9 | +2 | 0.334 | 1906 |
| 377 Campania . . | 22 | 11.9 | 14 0.4 | −12 0 | 0.8 | +7 | 0.276 | 1906 |
| 144 Vibilia . . . . | 22 | 11.7 | 14 1.8 | − 7 3 | 0.9 | +4 | 0.341 | 1905 |
| 506 Marion . . . . | 22 | 12.8 | 14 2.3 | −38 31 | 0.9 | +6 | 0.355 | 1908 |
| 140 Siwa . . . . . | 23 | 11.0 | 14 4.5 | − 7 21 | 0.9 | +4 | 0.198 | 1907 |
| 577 [1905 *RH*] . . | 24 | 12.7 | 14 7.3 | −20 33 | 0.8 | +3 | 0.291 | 1908 |
| 613 [1906 *VP*] . . | 24 | 13.3 | 14 8.4 | −20 55 | 0.9 | +3 | 0.315 | 1906 |
| *176 Idunna . . . . | 25 | 12.9 | 14 9.4 | − 5 49 | 0.7 | +8 | 0.435 | 1906 |
| 483 Seppina . . . . | 25 | 12.6 | 14 9.7 | + 3 19 | 0.6 | +6 | 0.397 | 1905 |
| 524 Fidelio . . . . | 25 | 13.0 | 14 13.0 | −25 44 | 1.0 | +4 | 0.290 | 1908 |
| 24 Themis . . . . | 25 | 10.5 | 14 13.7 | −13 26 | 0.8 | +4 | 0.290 | 1908 |
| 80 Sappho . . . . | 26 | 11.2 | 14 13.8 | −14 12 | 0.9 | +8 | 0.188 | 1908 |
| 512 Taurinensis . | 26 | 13.5 | 14 14.8 | + 1 4 | 1.0 | +5 | 0.188 | 1903 |
| 233 Asterope . . . | 27 | 11.6 | 14 17.4 | −14 59 | 0.8 | +7 | 0.256 | 1906 |
| 328 Gudrun . . . . | 27 | 12.6 | 14 21.3 | −32 32 | 1.0 | +2 | 0.367 | 1906 |
| 72 Feronia . . . . | 28 | 11.1 | 14 21.3 | −12 22 | 1.1 | +9 | 0.090 | 1906 |
| 606 [1906 *VB*] . . | 29 | 13.8 | 14 24.0 | −27 48 | 1.0 | +4 | 0.315 | 1906 |
| 337 Devosa . . . . | 29 | 11.8 | 14 25.9 | −24 11 | 1.1 | +3 | 0.195 | 1905 |
| 194 Prokne . . . . | 29 | 10.6 | 14 26.0 | +11 0 | 0.8 | +8 | 0.226 | 1908 |
| 534 Nassovia . . . | 30 | 13.2 | 14 28.7 | −10 26 | 0.8 | +3 | 0.319 | 1908 |
| 430 Hybris . . . . | Mai 3 | 14.3 | 14 39.3 | −24 57 | 0.8 | +6 | 0.395 | 1897 |
| 475 Ocllo . . . . . | 3 | 13.3 | 14 42.8 | −20 24 | 1.2 | −2 | 0.204 | 1908 |
| 611 [1906 *VL*] . . | 3 | 14.1 | 14 43.9 | − 5 27 | 0.7 | +6 | 0.354 | 1908 |
| 126 Velleda . . . . | 8 | 11.8 | 15 2.4 | +17 27 | 1.0 | −4 | 0.183 | 1908 |
| 403 Cyane . . . . . | 10 | 12.0 | 15 9.7 | −21 40 | 0.9 | +6 | 0.256 | 1906 |
| 406 Erna . . . . . | 11 | 13.9 | 15 11.5 | −24 21 | 0.9 | +4 | 0.322 | 1905 |
| 5 Astraea . . . . | 12 | 9.8 | 15 13.9 | − 8 48 | 1.0 | +4 | 0.181 | 1905 |
| 615 [1906 *VR*] . . | 12 | 11.9 | 15 15.2 | −21 10 | 1.0 | +2 | 0.133 | 1906 |
| 588 Achilles . . . . | 12 | 15.0 | 15 16.1 | −30 51 | 0.5 | +2 | 0.688 | 1907 |
| 27 Euterpe . . . . | 12 | 10.3 | 15 16.4 | −16 19 | 1.0 | +4 | 0.212 | 1907 |
| 66 Maja . . . . . | 13 | 13.1 | 15 18.5 | −21 36 | 1.0 | +3 | 0.321 | 1906 |
| 201 Penelope . . . | 13 | 12.0 | 15 21.7 | − 9 49 | 0.9 | +5 | 0.238 | 1901 |
| 227 Philosophia . . | 14 | 11.6 | 15 26.5 | −34 40 | 0.9 | +3 | 0.178 | 1908 |
| 346 Hermentaria . | 15 | 11.9 | 15 27.0 | −10 7 | 0.9 | +2 | 0.306 | 1908 |
| 537 Pauly . . . . . | 18 | 12.4 | 15 37.8 | − 4 42 | 0.8 | +2 | 0.229 | 1908 |
| 262 Valda . . . . . | 18 | 15.1 | 15 38.8 | −23 21 | 1.0 | 0 | 0.319 | 1900 |
| 385 Ilmatar . . . . | 18 | 10.0 | 15 39.1 | −41 4 | 1.2 | +2 | 0.233 | 1906 |
| 255 Oppavia . . . | 18 | 13.6 | 15 39.3 | −30 33 | 1.0 | +1 | 0.223 | 1904 |
| 207 Hedda . . . . | 18 | 12.1 | 15 40.9 | −23 5 | 1.1 | +1 | 0.083 | 1908 |
| 7 Iris . . . . . . | 19 | 9.5 | 15 44.1 | −22 57 | 1.0 | +4 | 0.278 | 1906 |

| Nr. und Name | Tag der Opp. | Gr. | 12h Mittlere Zeit AR. | Dekl. | Δα | Δδ | Log. Δ | Letzte Beob-achtung |
|---|---|---|---|---|---|---|---|---|
| | | | h m | ° ' | m | ' | | |
| 573 [1905 *RC*] . . | Mai 20 | 13.5 | 15 45.7 | −34 13 | 1.0 | +2 | 0.346 | 1908 |
| 163 Erigone . . . . | 20 | 12.3 | 15 46.5 | −12 15 | 1.0 | +3 | 0.225 | 1906 |
| 368 Haidea . . . . | 20 | 13.0 | 15 46.8 | −18 2 | 0.8 | +5 | 0.256 | 1893 |
| 245 Vera . . . . . | 21 | 13.3 | 15 51.3 | −19 53 | 0.8 | +2 | 0.410 | 1907 |
| 508 Princetonia . . | 21 | 12.2 | 15 51.8 | −25 44 | 0.9 | 0 | 0.327 | 1908 |
| 240 Vanadis . . . | 22 | 13.5 | 15 54.5 | −17 47 | 0.9 | +2 | 0.342 | 1906 |
| 182 Elsa . . . . . . | 22 | 11.9 | 15 55.3 | −17 57 | 1.1 | +2 | 0.273 | 1908 |
| 263 Dresda . . . . | 23 | 13.5 | 16 0.5 | −19 48 | 0.8 | +3 | 0.304 | 1906 |
| 445 Edna . . . . . | 24 | 13.1 | 16 4.7 | −43 38 | 1.0 | +4 | 0.402 | 1905 |
| 210 Isabella . . . . | 25 | 13.0 | 16 8.5 | −25 14 | 1.0 | +1 | 0.304 | 1906 |
| 621 [1906 *WJ*] . . | 26 | 14.6 | 16 13.7 | +21 3 | 0.8 | +2 | 0.394 | 1906 |
| 614 [1906 *VQ*] . . | 26 | 14.0 | 16 13.8 | −16 6 | 0.9 | +4 | 0.288 | 1906 |
| 136 Austria . . . . | 26 | 11.1 | 16 14.6 | − 6 13 | 0.9 | +6 | 0.086 | 1906 |
| 461 Saskia . . . . | 28 | 15.1 | 16 22.1 | −19 38 | 0.8 | +2 | 0.430 | 1900 |
| 4 Vesta . . . . . | 29 | 5.9 | 16 22.5 | −13 24 | 1.0 | −1 | 0.059 | 1908 |
| 303 Josephina . . . | 29 | 12.4 | 16 23.5 | −31 34 | 0.9 | +2 | 0.369 | 1908 |
| 321 Florentina . . | 30 | 13.4 | 16 29.7 | −23 44 | 0.9 | +1 | 0.302 | 1903 |
| 448 Natalie . . . . | Juni 3 | 13.1 | 16 42.9 | −33 27 | 1.0 | −3 | 0.287 | 1899 |
| *247 Eukrate . . . . | 3 | 12.1 | 16 44.6 | −56 57 | 1.5 | −1 | 0.386 | 1908 |
| 458 Hercynia . . . | 4 | 14.9 | 16 49.1 | − 6 39 | 0.8 | 0 | 0.421 | 1905 |
| 167 Urda . . . . . | 4 | 12.8 | 16 51.4 | −19 4 | 0.9 | +2 | 0.244 | 1906 |
| 212 Medea . . . . | 5 | 12.7 | 16 54.9 | −27 54 | 1.3 | +2 | 0.386 | 1907 |
| 340 Eduarda . . . | 6 | 13.9 | 16 55.7 | −27 54 | 1.0 | +1 | 0.313 | 1908 |
| 216 Kleopatra . . . | 6 | 10.8 | 16 58.1 | −10 35 | 0.8 | +4 | 0.342 | 1905 |
| 438 Zeuxo . . . . . | 6 | 13.0 | 16 58.5 | −28 20 | 1.1 | −2 | 0.149 | 1906 |
| 531 Zerlina . . . . | 8 | 13.1 | 17 4.1 | +27 5 | 0.8 | +7 | 0.171 | 1904 |
| 244 Sita . . . . . . | 8 | 14.0 | 17 6.8 | −19 1 | 1.1 | +3 | 0.099 | 1900 |
| 532 Herculina . . . | 9 | 9.3 | 17 8.3 | − 8 45 | 0.9 | −4 | 0.197 | 1908 |
| 358 Apollonia . . . | 10 | 13.1 | 17 12.4 | −17 53 | 0.8 | +1 | 0.355 | 1905 |
| 538 Friederike . . | 10 | 13.3 | 17 13.1 | −14 22 | 0.8 | 0 | 0.347 | 1907 |
| 476 Hedwig . . . . | 11 | 10.9 | 17 15.1 | −31 24 | 1.0 | +6 | 0.164 | 1904 |
| 454 Mathesis . . . | 11 | 11.2 | 17 15.3 | −31 6 | 1.0 | +5 | 0.154 | 1908 |
| 500 Selinur . . . . | 11 | 12.1 | 17 18.0 | −31 3 | 1.1 | +4 | 0.212 | 1908 |
| 444 Gyptis . . . . | 12 | 10.9 | 17 19.9 | − 8 20 | 0.9 | +3 | 0.223 | 1908 |
| 254 Augusta . . . | 12 | 12.5 | 17 24.5 | −30 54 | 1.1 | −1 | 9.963 | 1902 |
| 620 Drakonia . . . | 14 | 12.9 | 17 29.5 | −37 5 | 1.2 | 0 | 0.109 | 1908 |
| 36 Atalante . . . | 14 | 13.0 | 17 30.1 | −50 0 | 1.3 | 0 | 0.362 | 1907 |
| *288 Glauke . . . . | 14 | 11.7 | 17 30.3 | −18 40 | 0.9 | −1 | 0.146 | 1908 |
| *134 Sophrosyne . . | 14 | 11.7 | 17 31.8 | −41 4 | 1.2 | +1 | 0.271 | 1908 |
| 568 Cheruskia . . | 15 | 13.0 | 17 34.8 | −16 48 | 0.9 | +5 | 0.360 | 1907 |

| Nr. und Name | Tag der Opp. | Gr. | 12h Mittlere Zeit | | | | | Letzte Beobachtung |
|---|---|---|---|---|---|---|---|---|
| | | | AR. | Dekl. | Δα | Δδ | Log. Δ | |
| | | | h m | ° ' | m | ' | | |
| 195 Eurykleia . . . | Juni 16 | 12.4 | 17 38.3 | —33 44 | 1.0 | + 1 | 0.293 | 1908 |
| 435 Ella . . . . . . | 16 | 11.9 | 17 39.4 | —26 11 | 1.1 | 0 | 0.137 | 1906 |
| 527 Euryanthe . . | 16 | 12.0 | 17 40.5 | —13 46 | 0.9 | — 3 | 0.161 | 1906 |
| 509 Iolanda . . . . | 17 | 11.6 | 17 42.5 | — 6 33 | 0.8 | + 3 | 0.328 | 1908 |
| 468 Lina . . . . . | 18 | 12.8 | 17 48.0 | —24 7 | 0.9 | 0 | 0.291 | 1907 |
| 101 Helena . . . . | 18 | 10.2 | 17 49.4 | —40 34 | 1.2 | + 1 | 0.140 | 1908 |
| 565 Marbachia . . | 19 | 13.1 | 17 51.4 | —11 11 | 1.0 | + 3 | 0.181 | 1905 |
| 619 [1906 *WC*] . . | 19 | 12.2 | 17 52.1 | — 1 11 | 0.9 | + 3 | 0.190 | 1906 |
| 77 Frigga . . . . | 19 | 11.7 | 17 52.7 | —27 10 | 1.0 | 0 | 0.290 | 1908 |
| 616 [1906 *VT*] . . | 20 | 13.1 | 17 52.8 | —47 7 | 1.3 | — 1 | 0.243 | 1906 |
| 239 Adrastea . . . | 20 | 14.6 | 17 52.9 | —14 26 | 0.9 | 0 | 0.335 | 1900 |
| 25 Phocaea . . . | 20 | 9.1 | 17 53.3 | +13 43 | 0.8 | +13 | 9.972 | 1905 |
| 2 Pallas . . . . . | 22 | 9.2 | 18 0.9 | +24 20 | 0.8 | — 2 | 0.397 | 1908 |
| 511 Davida . . . . | 22 | 10.5 | 18 2.4 | —16 31 | 0.8 | — 3 | 0.438 | 1908 |
| 622 [1906 *WP*] . . | 23 | 13.3 | 18 6.8 | —12 34 | 1.0 | — 1 | 0.214 | 1908 |
| 211 Isolda . . . . . | 24 | 12.2 | 18 9.9 | —22 46 | 0.8 | 0 | 0.396 | 1907 |
| 466 Tisiphone . . . | 24 | 11.6 | 18 10.4 | —33 6 | 1.0 | + 4 | 0.357 | 1907 |
| 257 Silesia . . . . | 24 | 13.3 | 18 14.7 | —27 48 | 0.9 | — 2 | 0.383 | 1907 |
| 305 Gordonia . . . | 26 | 13.4 | 18 18.4 | —17 56 | 0.8 | 0 | 0.429 | 1905 |
| 479 Caprera . . . . | 27 | 13.5 | 18 23.6 | —14 47 | 0.9 | — 2 | 0.305 | 1907 |
| * 46 Hestia . . . . . | 29 | 10.2 | 18 32.8 | —19 14 | 1.0 | — 1 | 0.130 | 1908 |
| 503 Evelyn . . . . | Juli 1 | 13.2 | 18 41.3 | —26 50 | 1.0 | 0 | 0.340 | 1906 |
| 455 Bruchsalia . . | 2 | 10.3 | 18 46.2 | —31 54 | 1.1 | — 9 | 0.066 | 1907 |
| 268 Adorea . . . . | 3 | 12.6 | 18 46.8 | —21 44 | 0.9 | — 2 | 0.321 | 1907 |
| 495 Eulalia . . . . | 3 | 12.6 | 18 49.0 | —19 13 | 1.0 | — 1 | 0.177 | 1908 |
| 472 Roma . . . . . | 4 | 11.8 | 18 52.3 | —12 20 | 0.9 | — 6 | 0.232 | 1908 |
| 437 Rhodia . . . . | 6 | 11.2 | 19 0.0 | —17 3 | 0.9 | + 6 | 9.937 | 1907 |
| *654 Zelinda . . . . | 7 | 12.2 | 19 4.5 | —19 0 | 1.2 | + 4 | 0.239 | 1908 |
| 160 Una . . . . . . | 8 | 12.0 | 19 8.0 | —28 33 | 1.0 | — 2 | 0.261 | 1897 |
| 380 Fiducia . . . . | 8 | 12.0 | 19 8.3 | —24 26 | 0.9 | — 4 | 0.156 | 1905 |
| 135 Hertha . . . . | 8 | 9.2 | 19 12.2 | —26 26 | 1.0 | — 1 | 9.992 | 1908 |
| 580 [1905 *SE*] . . | 10 | 14.2 | 19 16.1 | —23 3 | 0.8 | — 2 | 0.381 | 1905 |
| 69 Hesperia . . . | 12 | 11.5 | 19 25.4 | —10 14 | 0.8 | — 2 | 0.394 | 1905 |
| 97 Klotho . . . . | 12 | 11.4 | 19 28.2 | — 8 19 | 0.9 | — 4 | 0.310 | 1907 |
| 1 Ceres . . . . . | 14 | 7.7 | 19 33.4 | —30 2 | 1.0 | — 5 | 0.283 | 1907 |
| 62 Erato . . . . . | 14 | 12.6 | 19 35.2 | —20 51 | 0.8 | — 2 | 0.338 | 1907 |
| 217 Eudora . . . . | 15 | 10.9 | 19 37.7 | — 5 42 | 0.7 | — 6 | 0.017 | 1905 |
| 422 Berolina . . . | 16 | 12.4 | 19 42.6 | —32 9 | 1.1 | + 1 | 9.972 | 1908 |
| 629 [1907 *XU*] . . | 18 | 14.7 | 19 53.0 | —26 58 | 0.8 | — 4 | 0.425 | 1907 |
| * 19 Fortuna . . . . | 20 | 9.7 | 19 56.1 | —18 3 | 1.0 | — 3 | 0.143 | 1908 |

| Nr. und Name | Tag der Opp. | Gr. | 12^h Mittlere Zeit AR. | Dekl. | Δα | Δδ | Log. Δ | Letzte Beob-achtung |
|---|---|---|---|---|---|---|---|---|
| | | | h m | ° ′ | m | ′ | | |
| 165 Loreley . . . . | Juli 20 | 10.7 | 19 57.8 | —22 52 | 0.9 | +1 | 0.279 | 1907 |
| 319 Leona . . . . . | 20 | 14.3 | 19 59.2 | — 6 9 | 0.7 | —3 | 0.391 | 1904 |
| 470 Kilia . . . . . | 20 | 12.8 | 20 0.2 | —10 3 | 0.8 | —5 | 0.128 | 1908 |
| 52 Europa . . . . | 21 | 10.8 | 20 3.4 | —18 21 | 0.8 | —4 | 0.384 | 1907 |
| 345 Tercidina . . . | 22 | 11.5 | 20 5.7 | — 3 22 | 1.0 | —2 | 0.158 | 1906 |
| 309 Fraternitas . . | 24 | 12.2 | 20 13.9 | —25 45 | 1.0 | —2 | 0.150 | 1891 |
| * 95 Arethusa . . . | 25 | 11.1 | 20 18.0 | — 2 7 | 0.8 | 0 | 0.298 | 1906 |
| 372 Palma . . . . . | 25 | 11.5 | 20 18.8 | —36 22 | 1.0 | 0 | 0.439 | 1906 |
| 312 Pierretta . . . | 26 | 11.6 | 20 21.5 | —34 14 | 0.9 | 0 | 0.148 | 1908 |
| 16 Psyche . . . . | 27 | 9.3 | 20 24.4 | —17 5 | 0.8 | —4 | 0.240 | 1908 |
| 579 [1905 *SD*] . . | 27 | 11.1 | 20 25.1 | —30 36 | 0.9 | —5 | 0.249 | 1908 |
| 462 Eriphyla . . . | 28 | 13.0 | 20 30.0 | —20 38 | 0.8 | —4 | 0.229 | 1907 |
| 356 Liguria . . . . | 28 | 11.6 | 20 30.1 | —29 10 | 0.9 | —2 | 0.309 | 1907 |
| 583 Klotilde . . . . | 29 | 13.8 | 20 36.8 | — 9 54 | 0.7 | —2 | 0.419 | 1908 |
| 373 Melusina . . . | 31 | 12.2 | 20 40.3 | —40 10 | 1.1 | —1 | 0.256 | 1907 |
| 545 Messalina . . . | 31 | 11.1 | 20 44.0 | —26 58 | 0.9 | +1 | 0.201 | 1907 |
| 569 Misa . . . . . | Aug. 1 | 12.9 | 20 47.5 | —17 41 | 0.9 | —3 | 0.282 | 1907 |
| 322 Phaeo . . . . . | 1 | 11.1 | 20 50.3 | — 5 10 | 0.9 | 0 | 0.107 | 1907 |
| 429 Lotis . . . . . | 6 | 12.2 | 21 5.2 | — 0 2 | 0.8 | —4 | 0.169 | 1908 |
| 313 Chaldaea . . . | 6 | 11.2 | 21 5.3 | — 4 16 | 0.9 | —7 | 0.256 | 1908 |
| 375 Ursula . . . . | 6 | 10.5 | 21 5.5 | —28 10 | 1.0 | +1 | 0.261 | 1907 |
| 290 Bruna . . . . . | 7 | 15.3 | 21 9.1 | —47 35 | 1.4 | 0 | 0.301 | 1890 |
| 581 Tauntonia . . | 7 | 13.7 | 21 10.6 | —32 45 | 0.8 | —7 | 0.356 | 1907 |
| 34 Circe . . . . . | 9 | 12.0 | 21 16.4 | — 9 29 | 0.7 | —5 | 0.290 | 1908 |
| 604 [1906 *TK*] . . | 9 | 11.8 | 21 17.4 | —22 9 | 0.8 | —3 | 0.266 | 1906 |
| 351 Yrsa . . . . . | 10 | 13.0 | 21 21.8 | —23 54 | 0.9 | —5 | 0.339 | 1907 |
| 354 Eleonora . . . | 10 | 10.6 | 21 20.2 | —14 3 | 0.7 | —8 | 0.326 | 1908 |
| 401 Ottilia . . . . | 11 | 12.6 | 21 22.6 | —24 31 | 0.8 | —3 | 0.362 | 1907 |
| 162 Laurentia . . . | 11 | 13.2 | 21 24.4 | —24 4 | 0.8 | —3 | 0.408 | 1905 |
| 626 [1907 *XO*] . . | 11 | 10.7 | 21 26.8 | —37 43 | 1.6 | +5 | 0.108 | 1907 |
| 331 Etheridgea . . | 13 | 11.9 | 21 32.5 | —23 42 | 0.8 | —3 | 0.244 | 1905 |
| 98 Ianthe . . . . | 15 | 12.5 | 21 38.2 | —28 16 | 1.0 | 0 | 0.340 | 1901 |
| 425 Cornelia . . . | 18 | 13.3 | 21 49.8 | —19 35 | 0.8 | —4 | 0.304 | 1907 |
| 31 Euphrosyne . | 18 | 11.8 | 21 51.4 | —50 26 | 1.1 | —2 | 0.436 | 1907 |
| 627 [1907 *XS*] . . | 19 | 12.8 | 21 53.9 | —13 25 | 0.8 | —6 | 0.247 | 1907 |
| 436 Patricia . . . . | 20 | 12.6 | 21 58.0 | —26 46 | 1.0 | 0 | 0.306 | 1904 |
| 204 Kallisto . . . . | 20 | 11.5 | 21 58.3 | + 0 8 | 0.8 | —7 | 0.161 | 1904 |
| * 57 Mnemosyne . . | 20 | 10.5 | 21 59.6 | + 5 55 | 0.7 | —6 | 0.312 | 1908 |
| 384 Burdigala . . . | 20 | 11.9 | 22 0.2 | —21 38 | 0.9 | —4 | 0.244 | 1907 |
| 535 Montague . . . | 21 | 12.0 | 22 0.8 | —22 25 | 0.9 | —6 | 0.217 | 1908 |

| Nr. und Name | Tag der Opp. | Gr. | 12^h Mittlere Zeit | | | | | Letzte Beobachtung |
|---|---|---|---|---|---|---|---|---|
| | | | AR. | Dekl. | Δα | Δδ | Log. Δ | |
| | | | h m | ° ′ | m | ′ | | |
| 488 Kreusa . . . . | Aug. 23 | 12.3 | 22 9.3 | −26 11 | 0.7 | − 5 | 0.428 | 1907 |
| 259 Aletheia . . . | 24 | 12.0 | 22 13.4 | −25 40 | 0.8 | − 5 | 0.318 | 1905 |
| 264 Libussa . . . . | 27 | 11.6 | 22 23.5 | −28 10 | 0.9 | − 4 | 0.199 | 1903 |
| 543 Charlotte . . . | 27 | 12.2 | 22 25.1 | − 0 50 | 0.8 | − 2 | 0.256 | 1907 |
| 224 Oceana . . . . | Sept. 1 | 11.6 | 22 39.6 | −11 19 | 0.9 | − 3 | 0.201 | 1905 |
| 469 Argentina . . . | 2 | 13.4 | 22 43.4 | − 6 40 | 0.8 | − 2 | 0.421 | 1907 |
| 277 Elvira . . . . . | 2 | 12.6 | 22 46.7 | − 5 52 | 0.7 | − 5 | 0.212 | 1907 |
| 365 Corduba . . . | 2 | 11.6 | 22 46.9 | + 1 35 | 0.7 | −10 | 0.183 | 1908 |
| * 82 Alkmene . . . | 4 | 12.1 | 22 54.1 | −10 12 | 0.8 | − 5 | 0.354 | 1907 |
| 59 Elpis . . . . . | 6 | 10.3 | 22 58.0 | − 4 38 | 0.7 | − 9 | 0.157 | 1907 |
| 481 Emita . . . . . | 6 | 11.2 | 22 59.9 | −23 56 | 0.9 | − 5 | 0.197 | 1908 |
| 248 Lameia . . . . | 7 | 13.0 | 23 1.7 | + 0 59 | 0.9 | − 6 | 0.170 | 1905 |
| 575 [1905 *RE*] . . | 8 | 12.8 | 23 5.5 | − 8 19 | 1.1 | + 2 | 0.098 | 1905 |
| 177 Irma . . . . . | 9 | 11.1 | 23 9.3 | − 5 36 | 0.8 | − 4 | 0.078 | 1906 |
| 387 Aquitania . . | 9 | 8.9 | 23 10.7 | −24 33 | 0.8 | −11 | 0.128 | 1908 |
| 623 [1907 *XJ*] . . | 9 | 12.6 | 23 12.0 | +12 54 | 1.1 | − 1 | 0.151 | 1907 |
| 138 Tolosa . . . . | 9 | 12.9 | 23 12.2 | −11 25 | 0.9 | − 4 | 0.040 | 1908 |
| 390 Alma . . . . . | 10 | 13.7 | 23 14.0 | + 9 32 | 0.9 | − 4 | 0.284 | 1901 |
| 450 Brigitta . . . . | 10 | 11.7 | 23 14.0 | −13 59 | 0.9 | − 1 | 0.246 | 1907 |
| 602 Marianna . . . | 12 | 10.3 | 23 20.5 | + 5 47 | 1.0 | + 4 | 0.104 | 1906 |
| 183 Istria . . . . . | 12 | 10.9 | 23 22.3 | −25 54 | 0.6 | −22 | 0.041 | 1906 |
| 541 Deborah . . . | 13 | 13.0 | 23 25.1 | + 6 15 | 0.8 | − 6 | 0.261 | 1908 |
| 226 Weringia . . . | 15 | 12.3 | 23 32.4 | −19 22 | 0.7 | − 6 | 0.148 | 1904 |
| 143 Adria . . . . . | 16 | 12.7 | 23 34.2 | + 4 10 | 0.9 | − 2 | 0.276 | 1895 |
| 467 Laura . . . . . | 16 | 13.9 | 23 35.7 | + 3 1 | 0.8 | − 3 | 0.244 | 1901 |
| 578 [1905 *RZ*] . . | 17 | 11.3 | 23 39.8 | − 9 12 | 0.9 | − 3 | 0.160 | 1908 |
| 215 Oenone . . . . | 17 | 12.5 | 23 40.3 | − 3 41 | 0.8 | − 5 | 0.222 | 1908 |
| 482 Petrina . . . . | 18 | 11.9 | 23 43.1 | + 0 3 | 0.7 | − 9 | 0.294 | 1908 |
| 147 Protogeneia . . | 19 | 12.3 | 23 44.8 | + 1 20 | 0.7 | − 5 | 0.306 | 1908 |
| 465 Alekto . . . . | 19 | 14.3 | 23 48.3 | + 4 16 | 0.7 | − 4 | 0.429 | 1908 |
| 130 Elektra . . . . | 20 | 9.4 | 23 49.3 | −20 25 | 0.6 | −12 | 0.180 | 1904 |
| 232 Russia . . . . | 21 | 14.1 | 23 52.8 | − 5 12 | 0.7 | − 1 | 0.264 | 1904 |
| 238 Hypatia . . . | 21 | 11.3 | 23 55.3 | + 1 34 | 0.7 | − 9 | 0.224 | 1907 |
| *184 Dejopeja . . . | 21 | 12.7 | 23 55.5 | + 0 16 | 0.7 | − 4 | 0.376 | 1907 |
| 447 Valentine . . . | 21 | 11.8 | 23 56.0 | − 8 15 | 0.8 | − 4 | 0.272 | 1908 |
| *190 Ismene . . . . | 23 | 12.1 | 0 1.2 | − 0 22 | 0.6 | − 5 | 0.475 | 1907 |
| 213 Lilaea . . . . . | 25 | 11.3 | 0 6.9 | − 9 16 | 0.8 | − 5 | 0.211 | 1907 |
| 542 Susanna . . . | 26 | 11.9 | 0 13.8 | − 8 45 | 0.7 | −10 | 0.176 | 1908 |
| 402 Chloe . . . . . | 27 | 11.2 | 0 14.5 | −14 1 | 0.8 | − 8 | 0.252 | 1908 |
| 630 [1907 *XW*] . . | 28 | 14.1 | 0 17.3 | −20 6 | 0.8 | − 6 | 0.288 | 1907 |

| Nr. und Name | Tag der Opp. | Gr. | 12h Mittlere Zeit AR. | Dekl. | Δα | Δδ | Log. Δ | Letzte Beobachtung |
|---|---|---|---|---|---|---|---|---|
| | | | h m | ° ′ | m | ′ | | |
| 420 Bertholda . . . | Sept. 30 | 12.3 | 0 27.5 | +11 30 | 0.7 | — 6 | 0.383 | 1903 |
| 329 Svea . . . . . | Okt. 2 | 12.3 | 0 33.3 | — 1 15 | 0.8 | —12 | 0.186 | 1908 |
| 451 Patientia . . . | 3 | 10.5 | 0 33.7 | —21 9 | 0.8 | — 3 | 0.301 | 1907 |
| 439 Ohio . . . . . | 4 | 12.5 | 0 39.7 | +10 0 | 0.7 | —10 | 0.304 | 1902 |
| 424 Gratia . . . . . | 4 | 12.4 | 0 42.6 | — 9 49 | 0.8 | — 5 | 0.209 | 1908 |
| *113 Amalthea . . . | 6 | 11.5 | 0 49.4 | — 2 58 | 0.9 | — 6 | 0.201 | 1908 |
| 173 Ino . . . . . . | 7 | 9.7 | 0 52.6 | —13 14 | 0.6 | —10 | 0.083 | 1907 |
| 181 Eucharis . . . | 9 | 11.2 | 0 58.0 | —15 44 | 0.8 | — 8 | 0.291 | 1906 |
| 295 Theresia . . . | 9 | 12.7 | 0 59.9 | +11 15 | 0.8 | — 5 | 0.153 | 1906 |
| * 35 Leukothea . . | 10 | 13.2 | 1 3.3 | +11 32 | 0.8 | — 3 | 0.425 | 1907 |
| 236 Honoria . . . . | 10 | 10.3 | 1 5.0 | + 4 23 | 0.7 | — 9 | 0.112 | 1907 |
| 586 [1906 *TC*] . . | 14 | 12.8 | 1 15.8 | + 9 19 | 0.8 | — 5 | 0.285 | 1906 |
| 129 Antigone . . . | 14 | 10.9 | 1 19.3 | — 7 54 | 0.8 | — 5 | 0.355 | 1908 |
| 336 Lacadiera . . . | 15 | 12.1 | 1 19.4 | +14 2 | 0.9 | — 8 | 0.129 | 1906 |
| 234 Barbara . . . . | 15 | 10.4 | 1 22.3 | —18 22 | 0.7 | — 8 | 9.984 | 1905 |
| 272 Antonia . . . . | 18 | 13.5 | 1 34.4 | + 8 9 | 0.9 | — 3 | 0.246 | 1890 |
| 318 Magdalena . . | 21 | 13.0 | 1 42.2 | — 0 39 | 0.7 | — 6 | 0.321 | 1908 |
| 30 Urania . . . . | 21 | 9.1 | 1 42.7 | +14 56 | 0.9 | — 5 | 0.029 | 1907 |
| 628 [1907 *XT*] . . | 21 | 12.1 | 1 44.6 | — 9 27 | 0.9 | — 4 | 0.189 | 1907 |
| 256 Walpurga . . | 22 | 13.4 | 1 48.1 | + 2 50 | 0.7 | — 7 | 0.340 | 1907 |
| *154 Bertha . . . . | 23 | 11.6 | 1 50.6 | + 6 29 | 0.9 | 0 | 0.391 | 1906 |
| 460 Scania . . . . | 24 | 13.3 | 1 56.1 | +11 9 | 0.8 | — 6 | 0.165 | 1905 |
| 499 Venusia . . . | 27 | 12.1 | 2 4.4 | +14 42 | 0.7 | — 4 | 0.363 | 1903 |
| 552 Sigelinde . . . | 27 | 12.5 | 2 4.8 | +21 38 | 0.8 | — 6 | 0.376 | 1908 |
| 434 Hungaria . . . | 28 | 11.9 | 2 9.7 | —15 10 | 1.0 | —15 | 0.005 | 1908 |
| 631 [1907 *YJ*] . . | 29 | 12.4 | 2 12.2 | +18 7 | 0.8 | — 8 | 0.266 | 1907 |
| 246 Asporina . . . | 29 | 12.1 | 2 14.1 | — 5 35 | 0.8 | — 6 | 0.284 | 1908 |
| 196 Philomela . . . | 29 | 10.4 | 2 15.3 | + 6 29 | 0.8 | — 2 | 0.329 | 1907 |
| 299 Thora . . . . . | 30 | 14.1 | 2 17.9 | +15 3 | 0.9 | — 6 | 0.113 | 1903 |
| 411 Xanthe . . . . | 30 | 12.7 | 2 19.6 | — 9 47 | 0.8 | — 2 | 0.317 | 1907 |
| 419 Aurelia . . . . | Nov. 2 | 11.7 | 2 26.2 | +15 36 | 1.0 | — 6 | 0.280 | 1908 |
| 333 Badenia . . . . | 2 | 11.8 | 2 28.2 | +19 16 | 0.9 | — 3 | 0.214 | 1906 |
| 539 Pamina . . . . | 5 | 11.9 | 2 42.2 | +25 42 | 0.9 | — 7 | 0.094 | 1906 |
| 109 Felicitas . . . | 5 | 9.9 | 2 43.3 | +27 5 | 1.1 | + 2 | 9.968 | 1907 |
| 21 Lutetia . . . | 5 | 9.7 | 2 43.6 | +12 18 | 1.0 | — 3 | 0.106 | 1908 |
| 363 Padua . . . . | 6 | 11.3 | 2 44.7 | +12 5 | 0.9 | — 2 | 0.207 | 1907 |
| * 79 Eurynome . . | 6 | 9.3 | 2 45.4 | +13 12 | 0.8 | — 8 | 9.995 | 1908 |
| 39 Laetitia . . . . | 6 | 9.0 | 2 45.4 | + 0 3 | 0.9 | — 6 | 0.190 | 1908 |
| 225 Henrietta . . . | 7 | 12.8 | 2 48.7 | + 4 39 | 0.7 | — 8 | 0.383 | 1903 |
| 625 [1907 *XN*] . . | 7 | 11.4 | 2 49.4 | — 5 34 | 0.9 | — 2 | 0.140 | 1907 |

| Nr. und Name | Tag der Opp. | Gr. | 12h Mittlere Zeit AR. | Dekl. | Δα | Δδ | Log. Δ | Letzte Beobachtung |
|---|---|---|---|---|---|---|---|---|
| | | | h m | ° ′ | m | ′ | | |
| 514 Armida . . . . | Nov. 8 | 12.2 | 2 55.8 | +20 57 | 0.8 | − 4 | 0.287 | 1908 |
| 219 Thusnelda . . | 9 | 10.4 | 2 57.5 | + 7 46 | 0.9 | −11 | 0.024 | 1908 |
| 502 Sigune . . . . | 10 | 14.2 | 2 59.5 | −24 43 | 1.0 | − 4 | 0.211 | 1907 |
| 404 Arsinoë . . . . | 10 | 14.1 | 3 3.8 | + 1 22 | 1.0 | − 2 | 0.330 | 1907 |
| 29 Amphitrite . . | 12 | 8.6 | 3 10.3 | +26 41 | 1.1 | − 2 | 0.141 | 1907 |
| 389 Industria . . . | 13 | 11.4 | 3 15.5 | +28 13 | 1.0 | − 6 | 0.241 | 1907 |
| 589 [1906 *TM*] . . | 13 | 12.5 | 3 16.4 | + 5 16 | 0.8 | − 4 | 0.302 | 1908 |
| 592 [1906 *TS*] . . | 14 | 12.1 | 3 16.9 | + 3 45 | 0.8 | − 4 | 0.226 | 1908 |
| 307 Nike . . . . . | 15 | 12.3 | 3 22.3 | +10 31 | 1.0 | − 1 | 0.179 | 1906 |
| 38 Leda . . . . . | 16 | 10.7 | 3 27.1 | +29 25 | 1.0 | − 5 | 0.159 | 1906 |
| *199 Byblis . . . . . | 17 | 13.1 | 3 31.8 | + 5 52 | 0.8 | 0 | 0.426 | 1907 |
| 8 Flora . . . . . | 19 | 7.9 | 3 36.9 | + 9 0 | 1.0 | 0 | 9.956 | 1908 |
| 86 Semele . . . . | 19 | 11.1 | 3 37.2 | +15 0 | 0.9 | 0 | 0.170 | 1907 |
| 555 Norma . . . . | 19 | 13.5 | 3 39.7 | +15 35 | 0.8 | − 2 | 0.287 | 1905 |
| 275 Sapientia . . . | 19 | 12.1 | 3 40.1 | +12 15 | 0.9 | − 3 | 0.272 | 1907 |
| 189 Phthia . . . . | 19 | 11.4 | 3 40.9 | +14 42 | 1.0 | − 5 | 0.147 | 1908 |
| 137 Meliboea . . . | 20 | 11.9 | 3 42.3 | + 8 54 | 0.8 | − 5 | 0.342 | 1907 |
| 41 Daphne . . . . | 21 | 11.7 | 3 45.1 | + 0 45 | 0.8 | − 4 | 0.400 | 1907 |
| 405 Thia . . . . . | 21 | 11.9 | 3 45.6 | +25 4 | 1.0 | − 6 | 0.307 | 1908 |
| 381 Myrrha . . . . | 21 | 12.9 | 3 46.6 | + 3 13 | 0.8 | − 1 | 0.409 | 1907 |
| 418 Alemannia . . | 22 | 12.1 | 3 50.4 | +22 1 | 0.9 | − 6 | 0.140 | 1906 |
| 302 Clarissa . . . . | 22 | 12.9 | 3 52.8 | +25 26 | 1.1 | − 2 | 0.062 | 1907 |
| 125 Liberatrix . . | 23 | 11.6 | 3 52.9 | +13 31 | 0.9 | − 3 | 0.286 | 1907 |
| 344 Desiderata . . | 23 | 12.5 | 3 53.6 | +26 37 | 1.2 | + 1 | 0.319 | 1907 |
| * 68 Leto . . . . . . | 23 | 10.0 | 3 56.6 | +24 18 | 1.1 | 0 | 0.199 | 1907 |
| 522 Helga . . . . . | 24 | 12.4 | 4 0.2 | +15 14 | 0.8 | − 2 | 0.394 | 1904 |
| 379 Huenna . . . | 24 | 12.1 | 4 1.8 | +18 20 | 0.9 | − 2 | 0.268 | 1908 |
| 383 Janina . . . . | 25 | 12.3 | 4 3.8 | +18 33 | 0.9 | − 1 | 0.210 | 1906 |
| 282 Clorinde . . . | 26 | 12.8 | 4 7.5 | + 4 18 | 1.0 | − 2 | 0.076 | 1908 |
| 464 Megaira . . . . | 27 | 11.3 | 4 10.6 | + 8 56 | 1.0 | + 2 | 0.158 | 1901 |
| 551 Ortrud . . . . | 27 | 12.1 | 4 13.0 | +21 46 | 0.9 | − 2 | 0.209 | 1908 |
| 399 Persephone . . | 27 | 13.1 | 4 13.5 | +40 25 | 1.0 | − 2 | 0.333 | 1906 |
| * 84 Klio . . . . . . | 28 | 11.0 | 4 17.2 | +38 8 | 1.3 | − 4 | 0.094 | 1908 |
| 93 Minerva . . . . | 30 | 11.5 | 4 23.3 | +33 2 | 1.1 | − 2 | 0.325 | 1907 |
| 513 Centesima . . | 30 | 11.9 | 4 25.3 | + 8 42 | 0.8 | − 3 | 0.259 | 1908 |
| 590 [1906 *TO*] . . | 30 | 12.7 | 4 25.5 | +10 26 | 0.9 | + 2 | 0.261 | 1906 |
| 477 Italia . . . . . | 30 | 12.1 | 4 27.4 | +29 32 | 1.2 | − 2 | 0.150 | 1908 |
| 334 Chicago . . . . | Dez. 1 | 12.0 | 4 28.8 | +16 4 | 0.7 | − 1 | 0.461 | 1907 |
| 169 Zelia . . . . . | 2 | 11.4 | 4 34.8 | +31 11 | 0.8 | − 2 | 0.151 | 1907 |
| 269 Justitia . . . . | 3 | 13.7 | 4 35.0 | +14 0 | 0.9 | − 2 | 0.327 | 1907 |

| Nr. und Name | Tag der Opp. | Gr. | 12h Mittlere Zeit AR. | Dekl. | Δα | Δδ | Log. Δ | Letzte Beobachtung |
|---|---|---|---|---|---|---|---|---|
| | | | h m | ° ′ | m | ′ | | |
| 3 Juno | Dez. 3 | 7.0 | 4 37.9 | − 2 47 | 0.8 | − 2 | 0.025 | 1908 |
| 96 Aegle | 3 | 11.4 | 4 39.7 | +44 31 | 1.1 | − 3 | 0.316 | 1903 |
| 347 Pariana | 4 | 11.9 | 4 40.6 | +17 21 | 1.1 | + 2 | 0.211 | 1907 |
| 635 [1907 *ZS*] | 5 | 12.3 | 4 44.9 | + 6 54 | 0.8 | − 3 | 0.290 | 1907 |
| 50 Virginia | 6 | 10.5 | 4 50.0 | +17 20 | 1.0 | − 2 | 0.066 | 1907 |
| * 65 Cybele | 6 | 11.5 | 4 51.0 | +17 47 | 0.8 | − 1 | 0.447 | 1907 |
| 70 Panopaea | 7 | 11.5 | 4 56.3 | +30 49 | 1.2 | + 1 | 0.284 | 1900 |
| 11 Parthenope | 9 | 9.5 | 5 3.1 | +17 6 | 1.1 | 0 | 0.194 | 1907 |
| 105 Artemis | 9 | 12.1 | 5 5.1 | + 7 33 | 1.0 | − 3 | 0.274 | 1907 |
| 127 Johanna | 10 | 10.3 | 5 8.5 | +32 36 | 1.2 | + 1 | 0.215 | 1897 |
| 485 Genua | 10 | 10.4 | 5 9.4 | + 1 20 | 0.9 | − 4 | 0.120 | 1908 |
| 633 [1907 *ZM*] | 11 | 13.2 | 5 13.2 | + 8 5 | 0.8 | + 1 | 0.330 | 1907 |
| 632 [1907 *YX*] | 12 | 15.5 | 5 17.8 | +26 20 | 1.0 | − 1 | 0.337 | 1907 |
| 208 Lacrimosa | 12 | 12.0 | 5 19.5 | +25 45 | 1.0 | 0 | 0.272 | 1906 |
| 171 Ophelia | 14 | 11.9 | 5 26.7 | +22 1 | 0.9 | 0 | 0.300 | 1906 |
| 596 [1906 *UA*] | 17 | 12.7 | 5 39.7 | +28 36 | 1.0 | + 3 | 0.377 | 1908 |
| 317 Roxane | 18 | 12.3 | 5 44.3 | +20 40 | 1.1 | 0 | 0.132 | 1908 |
| 55 Pandora | 20 | 10.6 | 5 50.9 | +34 42 | 1.2 | 0 | 0.215 | 1902 |
| 316 Goberta | 20 | 12.5 | 5 52.6 | +21 19 | 0.9 | + 1 | 0.246 | 1891 |
| 595 [1906 *TZ*] | 20 | 12.5 | 5 55.5 | +46 30 | 1.1 | + 1 | 0.398 | 1906 |
| 571 [1905 *QZ*] | 22 | 12.8 | 6 2.4 | +33 21 | 1.2 | − 2 | 0.021 | 1905 |
| 446 Aeternitas | 22 | 11.8 | 6 2.5 | +35 14 | 1.1 | + 1 | 0.305 | 1907 |
| 544 Jetta | 22 | 13.4 | 6 3.5 | +29 21 | 1.1 | − 2 | 0.301 | 1908 |
| 382 Dodona | 24 | 12.7 | 6 11.8 | +30 36 | 1.0 | − 1 | 0.386 | 1906 |
| 582 [1906 *SO*] | 27 | 11.5 | 6 22.7 | −23 44 | 0.9 | + 7 | 0.090 | 1908 |
| 359 Georgia | 27 | 12.5 | 6 24.5 | +33 46 | 1.1 | 0 | 0.268 | 1906 |
| 593 [1906 *TT*] | 28 | 11.1 | 6 27.7 | +34 19 | 1.1 | +11 | 0.063 | 1906 |
| 634 [1907 *ZN*] | 31 | 13.3 | 6 40.4 | +12 53 | 0.9 | + 4 | 0.334 | 1907 |
| 74 Galatea | 31 | 11.5 | 6 40.6 | +16 47 | 1.0 | + 1 | 0.219 | 1908 |
| 85 Io | 31 | 11.6 | 6 43.7 | + 5 49 | 0.9 | 0 | 0.306 | 1907 |
| 152 Atala | 31 | 11.9 | 6 44.3 | +38 41 | 1.1 | + 3 | 0.292 | 1905 |
| 547 Praxedis | 33 | 12.1 | 6 48.2 | − 4 38 | 0.9 | + 1 | 0.192 | 1908 |
| 510 Mabella | 33 | 13.9 | 6 52.3 | + 9 14 | 0.9 | + 1 | 0.332 | 1908 |
| 103 Hera | 38 | 10.6 | 7 9.7 | +18 22 | 1.0 | + 3 | 0.276 | 1908 |
| 158 Koronis | 38 | 12.1 | 7 11.6 | +22 17 | 1.0 | + 1 | 0.247 | 1908 |
| 591 [1906 *TP*] | 39 | 13.3 | 7 14.5 | +37 56 | 1.3 | − 2 | 0.193 | 1906 |
| 229 Adelinda | 39 | 13.9 | 7 19.3 | +25 5 | 0.8 | + 2 | 0.436 | 1900 |
| 88 Thisbe | 41 | 11.6 | 7 20.3 | +20 40 | 1.0 | + 1 | 0.343 | 1908 |
| 491 Carina | 41 | 12.5 | 7 25.9 | − 2 57 | 0.8 | + 4 | 0.342 | 1907 |
| 572 [1905 *RB*] | 42 | 12.6 | 7 31.6 | + 4 44 | 0.9 | + 3 | 0.084 | 1905 |

Von den mit einem Sternchen (*) bezeichneten Planeten enthält das Jahrbuch Seite (49)—(83) ausführliche Ephemeriden. — Nicht berücksichtigt sind: 99, 132, 155, 193, 220, 285, 323, 330, 353, 392, 396, 398, 400, 452, 463, 473, 474, 489, 493, 515, 517, 636 ff.

## (153) HILDA 1908—1909.

| 12ʰ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | m s |
| 1908 Dez. 26 | 7 8 55.41 | −38.53 | +14 11 44.4 | +0 9.1 | 0.561042 | 30 14 |
| 27 | 7 8 16.88 | 38.79 | 14 11 53.5 | 0 11.6 | 0.560672 | 30 13 |
| 28 | 7 7 38.09 | 39.02 | 14 12 5.1 | 0 14.1 | 0.560339 | 30 11 |
| 29 | 7 6 59.07 | 39.22 | 14 12 19.2 | 0 16.5 | 0.560043 | 30 10 |
| 30 | 7 6 19.85 | −39.39 | 14 12 35.7 | +0 18.8 | 0.559784 | 30 9 |
| 31 | 7 5 40.46 | 39.54 | +14 12 54.5 | 0 21.1 | 0.559562 | 30 8 |
| 1909 Jan. 1 | 7 5 0.92 | 39.66 | 14 13 15.6 | 0 23.2 | 0.559378 | 30 7 |
| 2 | 7 4 21.26 | 39.74 | 14 13 38.8 | 0 25.4 | 0.559232 | 30 7 |
| 3 | 7 3 41.52 | 39.80 | 14 14 4.2 | 0 27.6 | 0.559123 | 30 6 |
| ☍ 4 | 7 3 1.72 | −39.82 | 14 14 31.8 | +0 29.7 | 0.559052 | 30 6 |
| 5 | 7 2 21.90 | 39.81 | +14 15 1.5 | 0 31.7 | 0.559019 | 30 6 |
| 6 | 7 1 42.09 | 39.77 | 14 15 33.2 | 0 33.8 | 0.559024 | 30 6 |
| 7 | 7 1 2.32 | 39.69 | 14 16 7.0 | 0 35.8 | 0.559067 | 30 6 |
| 8 | 7 0 22.63 | 39.59 | 14 16 42.8 | 0 37.7 | 0.559147 | 30 6 |
| 9 | 6 59 43.04 | −39.47 | 14 17 20.5 | +0 39.6 | 0.559266 | 30 7 |
| 10 | 6 59 3.57 | 39.31 | +14 18 0.1 | 0 41.5 | 0.559422 | 30 8 |
| 11 | 6 58 24.26 | 39.12 | 14 18 41.6 | 0 43.4 | 0.559616 | 30 8 |
| 12 | 6 57 45.14 | 38.90 | 14 19 25.0 | 0 45.2 | 0.559848 | 30 9 |
| 13 | 6 57 6.24 | 38.66 | 14 20 10.2 | 0 46.9 | 0.560116 | 30 10 |
| 14 | 6 56 27.58 | −38.38 | 14 20 57.1 | +0 48.6 | 0.560422 | 30 12 |
| 15 | 6 55 49.20 | 38.08 | +14 21 45.7 | 0 50.2 | 0.560764 | 30 13 |
| 16 | 6 55 11.12 | 37.75 | 14 22 35.9 | 0 51.9 | 0.561144 | 30 15 |
| 17 | 6 54 33.37 | 37.38 | 14 23 27.8 | 0 53.5 | 0.561560 | 30 16 |
| 18 | 6 53 55.99 | 36.98 | 14 24 21.3 | 0 55.0 | 0.562012 | 30 18 |
| 19 | 6 53 19.01 | −36.56 | 14 25 16.3 | +0 56.5 | 0.562499 | 30 20 |
| 20 | 6 52 42.45 | 36.12 | +14 26 12.8 | 0 58.0 | 0.563022 | 30 23 |
| 21 | 6 52 6.33 | 35.63 | 14 27 10.8 | 0 59.4 | 0.563580 | 30 25 |
| 22 | 6 51 30.70 | 35.13 | 14 28 10.2 | 1 0.7 | 0.564172 | 30 27 |
| 23 | 6 50 55.57 | 34.60 | 14 29 10.9 | 1 2.0 | 0.564799 | 30 30 |
| 24 | 6 50 20.97 | −34.04 | 14 30 12.9 | +1 3.2 | 0.565459 | 30 33 |
| 25 | 6 49 46.93 | 33.44 | +14 31 16.1 | 1 4.4 | 0.566152 | 30 36 |
| 26 | 6 49 13.49 | 32.84 | 14 32 20.5 | 1 5.6 | 0.566878 | 30 39 |
| 27 | 6 48 40.65 | 32.22 | 14 33 26.1 | 1 6.7 | 0.567636 | 30 42 |
| 28 | 6 48 8.43 | 31.57 | 14 34 32.8 | 1 7.7 | 0.568425 | 30 45 |
| 29 | 6 47 36.86 | −30.90 | 14 35 40.5 | +1 8.6 | 0.569244 | 30 49 |
| 30 | 6 47 5.96 | 30.20 | +14 36 49.1 | 1 9.5 | 0.570094 | 30 53 |
| 31 | 6 46 35.76 | | 14 37 58.6 | | 0.570973 | 30 56 |

Opp. in AR. Jan. 4    Gröſse = 13.4

*P. Neugebauer.*

## (149) MEDUSA 1909.

| $12^h$ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ' " | ' " | | m s |
| Febr. 12 | 11 0 53.27 | −51.52 | +6 11 56.5 | +5 51.7 | 0.097538 | 10 24 |
| 13 | 11 0 1.75 | 52.77 | 6 17 48.2 | 5 59.3 | 0.096286 | 10 22 |
| 14 | 10 59 8.98 | 53.95 | 6 23 47.5 | 6 6.4 | 0.095118 | 10 21 |
| 15 | 10 58 15.03 | 55.05 | 6 29 53.9 | 6 13.0 | 0.094035 | 10 19 |
| 16 | 10 57 19.98 | −56.08 | 6 36 6.9 | +6 19.0 | 0.093038 | 10 18 |
| 17 | 10 56 23.90 | 57.03 | +6 42 25.9 | 6 24.6 | 0.092128 | 10 16 |
| 18 | 10 55 26.87 | 57.91 | 6 48 50.5 | 6 29.7 | 0.091308 | 10 15 |
| 19 | 10 54 28.96 | 58.71 | 6 55 20.2 | 6 34.2 | 0.090579 | 10 14 |
| 20 | 10 53 30.25 | 59.41 | 7 1 54.4 | 6 38.0 | 0.089942 | 10 13 |
| 21 | 10 52 30.84 | −60.01 | 7 8 32.4 | +6 41.2 | 0.089399 | 10 12 |
| 22 | 10 51 30.83 | 60.52 | +7 15 13.6 | 6 43.7 | 0.088951 | 10 12 |
| 23 | 10 50 30.31 | 60.95 | 7 21 57.3 | 6 45.6 | 0.088597 | 10 11 |
| 24 | 10 49 29.36 | 61.29 | 7 28 42.9 | 6 47.0 | 0.088339 | 10 11 |
| 25 | 10 48 28.07 | 61.54 | 7 35 29.9 | 6 47.8 | 0.088176 | 10 11 |
| 26 | 10 47 26.53 | −61.69 | 7 42 17.7 | +6 48.1 | 0.088108 | 10 11 |
| 27 | 10 46 24.84 | 61.74 | +7 49 5.8 | 6 47.7 | 0.088136 | 10 11 |
| ☍ 28 | 10 45 23.10 | 61.72 | 7 55 53.5 | 6 46.7 | 0.088260 | 10 11 |
| März 1 | 10 44 21.38 | 61.61 | 8 2 40.2 | 6 45.1 | 0.088478 | 10 11 |
| 2 | 10 43 19.77 | 61.40 | 8 9 25.3 | 6 43.0 | 0.088792 | 10 12 |
| 3 | 10 42 18.37 | −61.12 | 8 16 8.3 | +6 40.4 | 0.089202 | 10 12 |
| 4 | 10 41 17.25 | 60.75 | +8 22 48.7 | 6 37.1 | 0.089705 | 10 13 |
| 5 | 10 40 16.50 | 60.29 | 8 29 25.8 | 6 33.3 | 0.090301 | 10 14 |
| 6 | 10 39 16.21 | 59.73 | 8 35 59.1 | 6 29.1 | 0.090990 | 10 15 |
| 7 | 10 38 16.48 | 59.10 | 8 42 28.2 | 6 24.3 | 0.091770 | 10 16 |
| 8 | 10 37 17.38 | −58.40 | 8 48 52.5 | +6 19.0 | 0.092641 | 10 17 |
| 9 | 10 36 18.98 | 57.62 | +8 55 11.5 | 6 13.3 | 0.093602 | 10 18 |
| 10 | 10 35 21.36 | 56.75 | 9 1 24.8 | 6 7.2 | 0.094652 | 10 20 |
| 11 | 10 34 24.61 | 55.81 | 9 7 32.0 | 6 0.6 | 0.095790 | 10 21 |
| 12 | 10 33 28.80 | 54.80 | 9 13 32.6 | 5 53.7 | 0.097014 | 10 23 |
| 13 | 10 32 34.00 | −53.71 | 9 19 26.3 | +5 46.3 | 0.098321 | 10 25 |
| 14 | 10 31 40.29 | 52.56 | +9 25 12.6 | 5 38.4 | 0.099711 | 10 27 |
| 15 | 10 30 47.73 | 51.32 | 9 30 51.0 | 5 30.3 | 0.101183 | 10 30 |
| 16 | 10 29 56.41 | 50.02 | 9 36 21.3 | 5 21.9 | 0.102733 | 10 32 |
| 17 | 10 29 6.39 | 48.66 | 9 41 43.2 | 5 13.2 | 0.104360 | 10 34 |
| 18 | 10 28 17.73 | −47.23 | 9 46 56.4 | +5 4.0 | 0.106062 | 10 36 |
| 19 | 10 27 30.50 | 45.73 | +9 52 0.4 | 4 54.6 | 0.107838 | 10 39 |
| 20 | 10 26 44.77 | | 9 56 55.0 | | 0.109686 | 10 42 |

Opp. in AR. Febr. 28 Gröfse = 12.2

*P. Neugebauer.*

## (108) HECUBA 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| Febr. 16 | 11h 15m 31s.01 | −40s.40 | +6° 14′ 24″.7 | +2′ 55″.0 | 0.283537 | 15m 57s |
| 17 | 11 14 50.61 | 41.26 | 6 17 19.7 | 2 59.0 | 0.282454 | 15 55 |
| 18 | 11 14 9.35 | 42.06 | 6 20 18.7 | 3 2.6 | 0.281430 | 15 53 |
| 19 | 11 13 27.29 | 42.80 | 6 23 21.3 | 3 5.9 | 0.280466 | 15 51 |
| 20 | 11 12 44.49 | −43.50 | 6 26 27.2 | +3 8.9 | 0.279563 | 15 49 |
| 21 | 11 12 0.99 | 44.15 | +6 29 36.1 | 3 11.6 | 0.278721 | 15 47 |
| 22 | 11 11 16.84 | 44.74 | 6 32 47.7 | 3 14.0 | 0.277942 | 15 45 |
| 23 | 11 10 32.10 | 45.28 | 6 36 1.7 | 3 16.2 | 0.277228 | 15 44 |
| 24 | 11 9 46.82 | 45.77 | 6 39 17.9 | 3 18.0 | 0.276577 | 15 42 |
| 25 | 11 9 1.05 | −46.21 | 6 42 35.9 | +3 19.6 | 0.275991 | 15 41 |
| 26 | 11 8 14.84 | 46.60 | +6 45 55.5 | 3 20.8 | 0.275469 | 15 40 |
| 27 | 11 7 28.24 | 46.94 | 6 49 16.3 | 3 21.7 | 0.275012 | 15 39 |
| 28 | 11 6 41.30 | 47.21 | 6 52 38.0 | 3 22.3 | 0.274621 | 15 38 |
| März 1 | 11 5 54.09 | 47.43 | 6 56 0.3 | 3 22.6 | 0.274296 | 15 38 |
| 2 | 11 5 6.66 | −47.60 | 6 59 22.9 | +3 22.6 | 0.274037 | 15 37 |
| 3 | 11 4 19.06 | 47.72 | +7 2 45.5 | 3 22.2 | 0.273844 | 15 37 |
| 4 | 11 3 31.34 | 47.78 | 7 6 7.7 | 3 21.4 | 0.273717 | 15 36 |
| ☍ 5 | 11 2 43.56 | 47.79 | 7 9 29.1 | 3 20.5 | 0.273657 | 15 36 |
| 6 | 11 1 55.77 | 47.74 | 7 12 49.6 | 3 19.3 | 0.273663 | 15 36 |
| 7 | 11 1 8.03 | −47.62 | 7 16 8.9 | +3 17.8 | 0.273736 | 15 36 |
| 8 | 11 0 20.41 | 47.46 | +7 19 26.7 | 3 16.0 | 0.273875 | 15 37 |
| 9 | 10 59 32.95 | 47.26 | 7 22 42.7 | 3 13.9 | 0.274080 | 15 37 |
| 10 | 10 58 45.69 | 46.99 | 7 25 56.6 | 3 11.5 | 0.274351 | 15 38 |
| 11 | 10 57 58.70 | 46.67 | 7 29 8.1 | 3 8.8 | 0.274688 | 15 38 |
| 12 | 10 57 12.03 | −46.30 | 7 32 16.9 | +3 5.9 | 0.275090 | 15 39 |
| 13 | 10 56 25.73 | 45.89 | +7 35 22.8 | 3 2.7 | 0.275556 | 15 40 |
| 14 | 10 55 39.84 | 45.41 | 7 38 25.5 | 2 59.2 | 0.276087 | 15 41 |
| 15 | 10 54 54.43 | 44.89 | 7 41 24.7 | 2 55.5 | 0.276681 | 15 43 |
| 16 | 10 54 9.54 | 44.32 | 7 44 20.2 | 2 51.6 | 0.277337 | 15 44 |
| 17 | 10 53 25.22 | −43.68 | 7 47 11.8 | +2 47.5 | 0.278055 | 15 46 |
| 18 | 10 52 41.54 | 43.00 | +7 49 59.3 | 2 43.0 | 0.278835 | 15 47 |
| 19 | 10 51 58.54 | 42.27 | 7 52 42.3 | 2 38.3 | 0.279677 | 15 49 |
| 20 | 10 51 16.27 | 41.49 | 7 55 20.6 | 2 33.3 | 0.280579 | 15 51 |
| 21 | 10 50 34.78 | 40.67 | 7 57 53.9 | 2 28.2 | 0.281539 | 15 53 |
| 22 | 10 49 54.11 | −39.81 | 8 0 22.1 | +2 22.8 | 0.282556 | 15 55 |
| 23 | 10 49 14.30 | 38.90 | +8 2 44.9 | 2 17.2 | 0.283630 | 15 58 |
| 24 | 10 48 35.40 | | 8 5 2.1 | | 0.284760 | 16 0 |

Opp. in AR. März 5 Gröfse = 11.1

*P. Neugebauer.*

## (121) HERMIONE 1909.

| 12^h Mittl. Zeit | AR h m s | Diff. s | Dekl. ° ′ ″ | Diff. ′ ″ | Log. Δ | Aberr.-Zt. m s |
|---|---|---|---|---|---|---|
| Febr. 16 | 11 33 5.58 | −33.99 | +13 41 17.4 | +4 50.8 | 0.475201 | 24 49 |
| 17 | 11 32 31.59 | 34.66 | 13 46 8.2 | 4 51.2 | 0.474470 | 24 47 |
| 18 | 11 31 56.93 | 35.30 | 13 50 59.4 | 4 51.3 | 0.473780 | 24 45 |
| 19 | 11 31 21.63 | 35.90 | 13 55 50.7 | 4 51.1 | 0.473132 | 24 42 |
| 20 | 11 30 45.73 | −36.48 | 14 0 41.8 | +4 50.7 | 0.472525 | 24 40 |
| 21 | 11 30 9.25 | 37.03 | +14 5 32.5 | 4 50.0 | 0.471960 | 24 38 |
| 22 | 11 29 32.22 | 37.55 | 14 10 22.5 | 4 49.1 | 0.471439 | 24 36 |
| 23 | 11 28 54.67 | 38.03 | 14 15 11.6 | 4 47.9 | 0.470961 | 24 34 |
| 24 | 11 28 16.64 | 38.48 | 14 19 59.5 | 4 46.4 | 0.470526 | 24 33 |
| 25 | 11 27 38.16 | −38.88 | 14 24 45.9 | +4 44.6 | 0.470135 | 24 32 |
| 26 | 11 26 59.28 | 39.26 | +14 29 30.5 | 4 42.5 | 0.469788 | 24 30 |
| 27 | 11 26 20.02 | 39.61 | 14 34 13.0 | 4 40.2 | 0.469486 | 24 29 |
| 28 | 11 25 40.41 | 39.93 | 14 38 53.2 | 4 37.7 | 0.469228 | 24 29 |
| März 1 | 11 25 0.48 | 40.21 | 14 43 30.9 | 4 35.0 | 0.469014 | 24 28 |
| 2 | 11 24 20.27 | −40.46 | 14 48 5.9 | +4 32.0 | 0.468845 | 24 27 |
| 3 | 11 23 39.81 | 40.67 | +14 52 37.9 | 4 28.8 | 0.468721 | 24 27 |
| 4 | 11 22 59.14 | 40.84 | 14 57 6.7 | 4 25.4 | 0.468642 | 24 27 |
| 5 | 11 22 18.30 | 40.99 | 15 1 32.1 | 4 21.7 | 0.468608 | 24 27 |
| 6 | 11 21 37.31 | 41.09 | 15 5 53.8 | 4 17.7 | 0.468619 | 24 26 |
| 7 | 11 20 56.22 | −41.16 | 15 10 11.5 | +4 13.6 | 0.468674 | 24 27 |
| 8 | 11 20 15.06 | 41.20 | +15 14 25.1 | 4 9.3 | 0.468774 | 24 27 |
| ☍ 9 | 11 19 33.86 | 41.21 | 15 18 34.4 | 4 4.9 | 0.468919 | 24 28 |
| 10 | 11 18 52.65 | 41.18 | 15 22 39.3 | 4 0.2 | 0.469109 | 24 28 |
| 11 | 11 18 11.47 | 41.12 | 15 26 39.5 | 3 55.3 | 0.469344 | 24 29 |
| 12 | 11 17 30.35 | −41.02 | 15 30 34.8 | +3 50.1 | 0.469623 | 24 30 |
| 13 | 11 16 49.33 | 40.88 | +15 34 24.9 | 3 44.7 | 0.469946 | 24 31 |
| 14 | 11 16 8.45 | 40.72 | 15 38 9.6 | 3 39.3 | 0.470312 | 24 32 |
| 15 | 11 15 27.73 | 40.50 | 15 41 48.9 | 3 33.6 | 0.470722 | 24 34 |
| 16 | 11 14 47.23 | 40.26 | 15 45 22.5 | 3 27.8 | 0.471175 | 24 35 |
| 17 | 11 14 6.97 | −39.99 | 15 48 50.3 | +3 21.9 | 0.471671 | 24 37 |
| 18 | 11 13 26.98 | 39.68 | +15 52 12.2 | 3 15.7 | 0.472209 | 24 39 |
| 19 | 11 12 47.30 | 39.33 | 15 55 27.9 | 3 9.4 | 0.472788 | 24 41 |
| 20 | 11 12 7.97 | 38.94 | 15 58 37.3 | 3 3.0 | 0.473409 | 24 43 |
| 21 | 11 11 29.03 | 38.53 | 16 1 40.3 | 2 56.5 | 0.474072 | 24 45 |
| 22 | 11 10 50.50 | −38.08 | 16 4 36.8 | +2 49.8 | 0.474777 | 24 47 |
| 23 | 11 10 12.42 | 37.60 | +16 7 26.6 | 2 42.9 | 0.475523 | 24 50 |
| 24 | 11 9 34.82 | | 16 10 9.5 | | 0.476308 | 24 53 |

Opp. in AR. März 9 Größe = 11.9

*P. Neugebauer.*

## (47) AGLAJA 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | m s |
| Febr. 20 | 11 42 27.96 | −40.54 | +4 5 8.5 | +3 26.6 | 0.352183 | 18 41 |
| 21 | 11 41 47.42 | 41.40 | 4 8 35.1 | 3 30.7 | 0.350950 | 18 38 |
| 22 | 11 41 6.02 | 42.22 | 4 12 5.8 | 3 34.6 | 0.349766 | 18 35 |
| 23 | 11 40 23.80 | 43.00 | 4 15 40.4 | 3 38.2 | 0.348633 | 18 32 |
| 24 | 11 39 40.80 | −43.73 | 4 19 18.6 | +3 41.6 | 0.347552 | 18 30 |
| 25 | 11 38 57.07 | 44.43 | +4 23 0.2 | 3 44.7 | 0.346524 | 18 27 |
| 26 | 11 38 12.64 | 45.10 | 4 26 44.9 | 3 47.6 | 0.345549 | 18 25 |
| 27 | 11 37 27.54 | 45.73 | 4 30 32.5 | 3 50.1 | 0.344628 | 18 22 |
| 28 | 11 36 41.81 | 46.30 | 4 34 22.6 | 3 52.4 | 0.343763 | 18 20 |
| März 1 | 11 35 55.51 | −46.84 | 4 38 15.0 | +3 54.4 | 0.342953 | 18 18 |
| 2 | 11 35 8.67 | 47.34 | +4 42 9.4 | 3 56.2 | 0.342198 | 18 16 |
| 3 | 11 34 21.33 | 47.78 | 4 46 5.6 | 3 57.6 | 0.341501 | 18 14 |
| 4 | 11 33 33.55 | 48.19 | 4 50 3.2 | 3 58.9 | 0.340862 | 18 13 |
| 5 | 11 32 45.36 | 48.55 | 4 54 2.1 | 3 59.8 | 0.340281 | 18 11 |
| 6 | 11 31 56.81 | −48.86 | 4 58 1.9 | +4 0.4 | 0.339757 | 18 10 |
| 7 | 11 31 7.95 | 49.13 | +5 2 2.3 | 4 0.7 | 0.339292 | 18 9 |
| 8 | 11 30 18.82 | 49.35 | 5 6 3.0 | 4 0.8 | 0.338887 | 18 8 |
| 9 | 11 29 29.47 | 49.52 | 5 10 3.8 | 4 0.6 | 0.338541 | 18 7 |
| 10 | 11 28 39.95 | 49.65 | 5 14 4.4 | 4 0.1 | 0.338254 | 18 6 |
| ☍ 11 | 11 27 50.30 | −49.73 | 5 18 4.5 | +3 59.3 | 0.338027 | 18 6 |
| 12 | 11 27 0.57 | 49.76 | +5 22 3.8 | 3 58.2 | 0.337860 | 18 5 |
| 13 | 11 26 10.81 | 49.73 | 5 26 2.0 | 3 56.9 | 0.337753 | 18 5 |
| 14 | 11 25 21.08 | 49.66 | 5 29 58.9 | 3 55.3 | 0.337706 | 18 5 |
| 15 | 11 24 31.42 | 49.54 | 5 33 54.2 | 3 53.3 | 0.337719 | 18 5 |
| 16 | 11 23 41.88 | −49.36 | 5 37 47.5 | +3 51.0 | 0.337792 | 18 5 |
| 17 | 11 22 52.52 | 49.15 | +5 41 38.5 | 3 48.6 | 0.337924 | 18 5 |
| 18 | 11 22 3.37 | 48.88 | 5 45 27.1 | 3 46.0 | 0.338116 | 18 6 |
| 19 | 11 21 14.49 | 48.57 | 5 49 13.1 | 3 43.0 | 0.338366 | 18 6 |
| 20 | 11 20 25.92 | 48.20 | 5 52 56.1 | 3 39.8 | 0.338674 | 18 7 |
| 21 | 11 19 37.72 | −47.79 | 5 56 35.9 | +3 36.2 | 0.339041 | 18 8 |
| 22 | 11 18 49.93 | 47.31 | +6 0 12.1 | 3 32.4 | 0.339466 | 18 9 |
| 23 | 11 18 2.62 | 46.80 | 6 3 44.5 | 3 28.3 | 0.339948 | 18 11 |
| 24 | 11 17 15.82 | 46.24 | 6 7 12.8 | 3 24.0 | 0.340486 | 18 12 |
| 25 | 11 16 29.58 | 45.64 | 6 10 36.8 | 3 19.5 | 0.341080 | 18 13 |
| 26 | 11 15 43.94 | −44.99 | 6 13 56.3 | +3 14.7 | 0.341729 | 18 15 |
| 27 | 11 14 58.95 | 44.30 | +6 17 11.0 | 3 9.5 | 0.342432 | 18 17 |
| 28 | 11 14 14.65 | | 6 20 20.5 | | 0.343189 | 18 19 |

Opp. in AR. März 11 Gröfse = 11.7

*P. Neugebauer.*

## (198) AMPELLA 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | m s |
| März 4 | 11 57 42.93 | −49.63 | −14 28 34.0 | +3 5.9 | 0.320468 | 17 22 |
| 5 | 11 56 53.30 | 50.30 | 14 25 28.1 | 3 17.2 | 0.319355 | 17 20 |
| 6 | 11 56 3.00 | 50.93 | 14 22 10.9 | 3 28.5 | 0.318296 | 17 17 |
| 7 | 11 55 12.07 | 51.51 | 14 18 42.4 | 3 39.6 | 0.317291 | 17 15 |
| 8 | 11 54 20.56 | −52.02 | 14 15 2.8 | +3 50.6 | 0.316341 | 17 12 |
| 9 | 11 53 28.54 | 52.51 | −14 11 12.2 | 4 1.4 | 0.315447 | 17 10 |
| 10 | 11 52 36.03 | 52.95 | 14 7 10.8 | 4 11.9 | 0.314609 | 17 8 |
| 11 | 11 51 43.08 | 53.33 | 14 2 58.9 | 4 22.3 | 0.313829 | 17 6 |
| 12 | 11 50 49.75 | 53.65 | 13 58 36.6 | 4 32.6 | 0.313108 | 17 5 |
| 13 | 11 49 56.10 | −53.92 | 13 54 4.0 | +4 42.5 | 0.312446 | 17 3 |
| 14 | 11 49 2.18 | 54.14 | −13 49 21.5 | 4 52.2 | 0.311843 | 17 2 |
| 15 | 11 48 8.04 | 54.31 | 13 44 29.3 | 5 1.6 | 0.311301 | 17 0 |
| 16 | 11 47 13.73 | 54.42 | 13 39 27.7 | 5 10.7 | 0.310819 | 16 59 |
| ☍ 17 | 11 46 19.31 | 54.47 | 13 34 17.0 | 5 19.5 | 0.310399 | 16 58 |
| 18 | 11 45 24.84 | −54.47 | 13 28 57.5 | +5 28.1 | 0.310040 | 16 57 |
| 19 | 11 44 30.37 | 54.41 | −13 23 29.4 | 5 36.3 | 0.309744 | 16 56 |
| 20 | 11 43 35.96 | 54.28 | 13 17 53.1 | 5 44.1 | 0.309510 | 16 56 |
| 21 | 11 42 41.68 | 54.10 | 13 12 9.0 | 5 51.6 | 0.309338 | 16 56 |
| 22 | 11 41 47.58 | 53.86 | 13 6 17.4 | 5 58.6 | 0.309230 | 16 56 |
| 23 | 11 40 53.72 | −53.56 | 13 0 18.8 | +6 5.4 | 0.309187 | 16 56 |
| 24 | 11 40 0.16 | 53.21 | −12 54 13.4 | 6 11.6 | 0.309199 | 16 56 |
| 25 | 11 39 6.95 | 52.81 | 12 48 1.8 | 6 17.5 | 0.309276 | 16 56 |
| 26 | 11 38 14.14 | 52.34 | 12 41 44.3 | 6 22.9 | 0.309416 | 16 56 |
| 27 | 11 37 21.80 | 51.83 | 12 35 21.4 | 6 27.9 | 0.309618 | 16 56 |
| 28 | 11 36 29.97 | −51.28 | 12 28 53.5 | +6 32.6 | 0.309882 | 16 57 |
| 29 | 11 35 38.69 | 50.66 | −12 22 20.9 | 6 36.7 | 0.310206 | 16 58 |
| 30 | 11 34 48.03 | 49.99 | 12 15 44.2 | 6 40.5 | 0.310591 | 16 59 |
| 31 | 11 33 58.04 | 49.29 | 12 9 3.7 | 6 43.7 | 0.311036 | 17 0 |
| April 1 | 11 33 8.75 | 48.56 | 12 2 20.0 | 6 46.7 | 0.311540 | 17 1 |
| 2 | 11 32 20.19 | −47.77 | 11 55 33.3 | +6 49.2 | 0.312102 | 17 2 |
| 3 | 11 31 32.42 | 46.94 | −11 48 44.1 | 6 51.2 | 0.312722 | 17 4 |
| 4 | 11 30 45.48 | 46.07 | 11 41 52.9 | 6 52.9 | 0.313399 | 17 5 |
| 5 | 11 29 59.41 | 45.16 | 11 35 0.0 | 6 54.2 | 0.314132 | 17 7 |
| 6 | 11 29 14.25 | 44.21 | 11 28 5.8 | 6 55.1 | 0.314921 | 17 9 |
| 7 | 11 28 30.04 | −43.23 | 11 21 10.7 | +6 55.6 | 0.315764 | 17 11 |
| 8 | 11 27 46.81 | 42.20 | −11 14 15.1 | 6 55.6 | 0.316662 | 17 13 |
| 9 | 11 27 4.61 | | 11 7 19.5 | | 0.317613 | 17 15 |

Opp. in AR. März 17 Größe = 12.2

*P. Neugebauer.*

## (26) PROSERPINA 1909.

| $12^h$ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| Febr. 28 | $12^h\,15^m\,31^s.83$ | −39.67 | +3° 14′ 4″.7 | +4′ 18″.4 | 0.202311 | $13^m\,14^s$ |
| März 1 | 12 14 52.16 | 40.86 | 3 18 23.1 | 4 23.0 | 0.200706 | 13 11 |
| 2 | 12 14 11.30 | 42.00 | 3 22 46.1 | 4 27.1 | 0.199161 | 13 9 |
| 3 | 12 13 29.30 | 43.09 | 3 27 13.2 | 4 30.9 | 0.197679 | 13 6 |
| 4 | 12 12 46.21 | −44.12 | 3 31 44.1 | +4 34.4 | 0.196261 | 13 3 |
| 5 | 12 12 2.09 | 45.12 | +3 36 18.5 | 4 37.7 | 0.194909 | 13 1 |
| 6 | 12 11 16.97 | 46.07 | 3 40 56.2 | 4 40.5 | 0.193626 | 12 59 |
| 7 | 12 10 30.90 | 46.96 | 3 45 36.7 | 4 42.9 | 0.192413 | 12 56 |
| 8 | 12 9 43.94 | 47.80 | 3 50 19.6 | 4 44.9 | 0.191270 | 12 54 |
| 9 | 12 8 56.14 | −48.59 | 3 55 4.5 | +4 46.5 | 0.190198 | 12 53 |
| 10 | 12 8 7.55 | 49.32 | +3 59 51.0 | 4 47.7 | 0.189198 | 12 51 |
| 11 | 12 7 18.23 | 50.00 | 4 4 38.7 | 4 48.5 | 0.188272 | 12 49 |
| 12 | 12 6 28.23 | 50.60 | 4 9 27.2 | 4 48.9 | 0.187421 | 12 48 |
| 13 | 12 5 37.63 | 51.15 | 4 14 16.1 | 4 48.9 | 0.186644 | 12 46 |
| 14 | 12 4 46.48 | −51.64 | 4 19 5.0 | +4 48.4 | 0.185943 | 12 45 |
| 15 | 12 3 54.84 | 52.06 | +4 23 53.4 | 4 47.5 | 0.185319 | 12 44 |
| 16 | 12 3 2.78 | 52.40 | 4 28 40.9 | 4 46.3 | 0.184773 | 12 43 |
| 17 | 12 2 10.38 | 52.68 | 4 33 27.2 | 4 44.6 | 0.184304 | 12 42 |
| 18 | 12 1 17.70 | 52.91 | 4 38 11.8 | 4 42.4 | 0.183913 | 12 41 |
| 19 | 12 0 24.79 | −53.05 | 4 42 54.2 | +4 39.8 | 0.183601 | 12 41 |
| ☍ 20 | 11 59 31.74 | 53.12 | +4 47 34.0 | 4 36.8 | 0.183368 | 12 40 |
| 21 | 11 58 38.62 | 53.12 | 4 52 10.8 | 4 33.2 | 0.183215 | 12 40 |
| 22 | 11 57 45.50 | 53.04 | 4 56 44.0 | 4 29.2 | 0.183141 | 12 40 |
| 23 | 11 56 52.46 | 52.88 | 5 1 13.2 | 4 24.8 | 0.183145 | 12 40 |
| 24 | 11 55 59.58 | −52.66 | 5 5 38.0 | +4 20.0 | 0.183228 | 12 40 |
| 25 | 11 55 6.92 | 52.38 | +5 9 58.0 | 4 14.9 | 0.183388 | 12 40 |
| 26 | 11 54 14.54 | 52.02 | 5 14 12.9 | 4 9.3 | 0.183625 | 12 41 |
| 27 | 11 53 22.52 | 51.58 | 5 18 22.2 | 4 3.4 | 0.183940 | 12 41 |
| 28 | 11 52 30.94 | 51.10 | 5 22 25.6 | 3 57.1 | 0.184331 | 12 42 |
| 29 | 11 51 39.84 | −50.56 | 5 26 22.7 | +3 50.5 | 0.184797 | 12 43 |
| 30 | 11 50 49.28 | 49.93 | +5 30 13.2 | 3 43.6 | 0.185337 | 12 44 |
| 31 | 11 49 59.35 | 49.25 | 5 33 56.8 | 3 36.5 | 0.185950 | 12 45 |
| April 1 | 11 49 10.10 | 48.52 | 5 37 33.3 | 3 29.0 | 0.186636 | 12 46 |
| 2 | 11 48 21.58 | 47.74 | 5 41 2.3 | 3 21.2 | 0.187393 | 12 47 |
| 3 | 11 47 33.84 | −46.90 | 5 44 23.5 | +3 13.2 | 0.188220 | 12 49 |
| 4 | 11 46 46.94 | 46.00 | +5 47 36.7 | 3 4.9 | 0.189116 | 12 51 |
| 5 | 11 46 0.94 | | 5 50 41.6 | | 0.190079 | 12 52 |

Opp. in AR. März 20    Gröfse = 10.2

*P. Neugebauer.*

## (64) EVA 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | m s |
| März 8 | 12 55 25.66 | −47.22 | +29 57 4.0 | +7 2.7 | 0.428209 | 22 16 |
| 9 | 12 54 38.44 | 48.12 | 30 4 6.7 | 6 53.6 | 0.427817 | 22 15 |
| 10 | 12 53 50.32 | 48.99 | 30 11 0.3 | 6 44.1 | 0.427467 | 22 14 |
| 11 | 12 53 1.33 | 49.82 | 30 17 44.4 | 6 34.3 | 0.427160 | 22 13 |
| 12 | 12 52 11.51 | −50.60 | 30 24 18.7 | +6 24.0 | 0.426894 | 22 12 |
| 13 | 12 51 20.91 | 51.35 | +30 30 42.7 | 6 13.5 | 0.426670 | 22 12 |
| 14 | 12 50 29.56 | 52.07 | 30 36 56.2 | 6 2.4 | 0.426488 | 22 11 |
| 15 | 12 49 37.49 | 52.73 | 30 42 58.6 | 5 51.1 | 0.426350 | 22 11 |
| 16 | 12 48 44.76 | 53.34 | 30 48 49.7 | 5 39.4 | 0.426254 | 22 10 |
| 17 | 12 47 51.42 | −53.92 | 30 54 29.1 | +5 27.2 | 0.426202 | 22 10 |
| 18 | 12 46 57.50 | 54.45 | +30 59 56.3 | 5 14.8 | 0.426193 | 22 10 |
| 19 | 12 46 3.05 | 54.93 | 31 5 11.1 | 5 2.2 | 0.426227 | 22 10 |
| 20 | 12 45 8.12 | 55.34 | 31 10 13.3 | 4 49.1 | 0.426305 | 22 10 |
| 21 | 12 44 12.78 | 55.72 | 31 15 2.4 | 4 35.8 | 0.426426 | 22 11 |
| 22 | 12 43 17.06 | −56.04 | 31 19 38.2 | +4 22.2 | 0.426590 | 22 11 |
| 23 | 12 42 21.02 | 56.32 | +31 24 0.4 | 4 8.3 | 0.426796 | 22 12 |
| 24 | 12 41 24.70 | 56.54 | 31 28 8.7 | 3 54.3 | 0.427046 | 22 13 |
| 25 | 12 40 28.16 | 56.70 | 31 32 3.0 | 3 40.1 | 0.427338 | 22 14 |
| 26 | 12 39 31.46 | 56.82 | 31 35 43.1 | 3 25.6 | 0.427672 | 22 15 |
| 27 | 12 38 34.64 | −56.88 | 31 39 8.7 | +3 11.1 | 0.428048 | 22 16 |
| 28 | 12 37 37.76 | 56.89 | +31 42 19.8 | 2 56.4 | 0.428465 | 22 17 |
| 29 | 12 36 40.87 | 56.85 | 31 45 16.2 | 2 41.6 | 0.428923 | 22 18 |
| ☍ 30 | 12 35 44.02 | 56.76 | 31 47 57.8 | 2 26.8 | 0.429422 | 22 20 |
| 31 | 12 34 47.26 | 56.63 | 31 50 24.6 | 2 12.0 | 0.429960 | 22 22 |
| April 1 | 12 33 50.63 | −56.44 | 31 52 36.6 | +1 56.9 | 0.430538 | 22 23 |
| 2 | 12 32 54.19 | 56.21 | +31 54 33.5 | 1 41.7 | 0.431155 | 22 25 |
| 3 | 12 31 57.98 | 55.92 | 31 56 15.2 | 1 26.4 | 0.431811 | 22 27 |
| 4 | 12 31 2.06 | 55.58 | 31 57 41.6 | 1 11.2 | 0.432505 | 22 30 |
| 5 | 12 30 6.48 | 55.22 | 31 58 52.8 | 0 56.0 | 0.433235 | 22 32 |
| 6 | 12 29 11.26 | −54.80 | 31 59 48.8 | +0 40.9 | 0.434003 | 22 34 |
| 7 | 12 28 16.46 | 54.33 | +32 0 29.7 | 0 25.9 | 0.434807 | 22 37 |
| 8 | 12 27 22.13 | 53.83 | 32 0 55.6 | +0 10.8 | 0.435647 | 22 39 |
| 9 | 12 26 28.30 | 53.30 | 32 1 6.4 | −0 4.2 | 0.436522 | 22 42 |
| 10 | 12 25 35.00 | 52.72 | 32 1 2.2 | 0 19.1 | 0.437431 | 22 45 |
| 11 | 12 24 42.28 | −52.09 | 32 0 43.1 | −0 34.0 | 0.438374 | 22 48 |
| 12 | 12 23 50.19 | 51.44 | +32 0 9.1 | 0 48.8 | 0.439350 | 22 51 |
| 13 | 12 22 58.75 | | 31 59 20.3 | | 0.440360 | 22 54 |

Opp. in AR. März 30 Grösse = 13.2

*P. Neugebauer.*

## (90) ANTIOPE 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | m s |
| März 12 | 12 49 26.98 | −37.06 | −2 13 9.9 | +4 6.9 | 0.380541 | 19 57 |
| 13 | 12 48 49.92 | 37.81 | 2 9 3.0 | 4 10.4 | 0.379360 | 19 54 |
| 14 | 12 48 12.11 | 38.52 | 2 4 52.6 | 4 13.6 | 0.378227 | 19 51 |
| 15 | 12 47 33.59 | 39.20 | 2 0 39.0 | 4 16.6 | 0.377143 | 19 48 |
| 16 | 12 46 54.39 | −39.84 | 1 56 22.4 | +4 19.4 | 0.376107 | 19 45 |
| 17 | 12 46 14.55 | 40.45 | −1 52 3.0 | 4 22.0 | 0.375120 | 19 42 |
| 18 | 12 45 34.10 | 41.02 | 1 47 41.0 | 4 24.4 | 0.374184 | 19 40 |
| 19 | 12 44 53.08 | 41.55 | 1 43 16.6 | 4 26.5 | 0.373300 | 19 38 |
| 20 | 12 44 11.53 | 42.04 | 1 38 50.1 | 4 28.4 | 0.372467 | 19 35 |
| 21 | 12 43 29.49 | −42.48 | 1 34 21.7 | +4 29.9 | 0.371687 | 19 33 |
| 22 | 12 42 47.01 | 42.89 | −1 29 51.8 | 4 31.2 | 0.370959 | 19 31 |
| 23 | 12 42 4.12 | 43.25 | 1 25 20.6 | 4 32.3 | 0.370285 | 19 30 |
| 24 | 12 41 20.87 | 43.56 | 1 20 48.3 | 4 33.0 | 0.369665 | 19 29 |
| 25 | 12 40 37.31 | 43.83 | 1 16 15.3 | 4 33.4 | 0.369099 | 19 27 |
| 26 | 12 39 53.48 | −44.06 | 1 11 41.9 | +4 33.4 | 0.368587 | 19 25 |
| 27 | 12 39 9.42 | 44.24 | −1 7 8.5 | 4 33.3 | 0.368131 | 19 24 |
| 28 | 12 38 25.18 | 44.39 | 1 2 35.2 | 4 32.9 | 0.367730 | 19 23 |
| 29 | 12 37 40.79 | 44.49 | 0 58 2.3 | 4 32.2 | 0.367384 | 19 22 |
| ☍ 30 | 12 36 56.30 | 44.55 | 0 53 30.1 | 4 31.2 | 0.367094 | 19 21 |
| 31 | 12 36 11.75 | −44.56 | 0 48 58.9 | +4 29.9 | 0.366860 | 19 20 |
| April 1 | 12 35 27.19 | 44.53 | −0 44 29.0 | 4 28.4 | 0.366680 | 19 20 |
| 2 | 12 34 42.66 | 44.46 | 0 40 0.6 | 4 26.6 | 0.366556 | 19 20 |
| 3 | 12 33 58.20 | 44.35 | 0 35 34.0 | 4 24.5 | 0.366486 | 19 20 |
| 4 | 12 33 13.85 | 44.20 | 0 31 9.5 | 4 22.2 | 0.366472 | 19 20 |
| 5 | 12 32 29.65 | −44.01 | 0 26 47.3 | +4 19.6 | 0.366512 | 19 20 |
| 6 | 12 31 45.64 | 43.77 | −0 22 27.7 | 4 16.8 | 0.366606 | 19 20 |
| 7 | 12 31 1.87 | 43.49 | 0 18 10.9 | 4 13.7 | 0.366754 | 19 20 |
| 8 | 12 30 18.38 | 43.17 | 0 13 57.2 | 4 10.3 | 0.366956 | 19 20 |
| 9 | 12 29 35.21 | 42.81 | 0 9 46.9 | 4 6.8 | 0.367212 | 19 21 |
| 10 | 12 28 52.40 | −42.41 | 0 5 40.1 | +4 3.0 | 0.367521 | 19 22 |
| 11 | 12 28 9.99 | 41.98 | −0 1 37.1 | 3 59.0 | 0.367883 | 19 23 |
| 12 | 12 27 28.01 | 41.50 | +0 2 21.9 | 3 54.7 | 0.368297 | 19 24 |
| 13 | 12 26 46.51 | 40.99 | 0 6 16.6 | 3 50.2 | 0.368762 | 19 25 |
| 14 | 12 26 5.52 | 40.45 | 0 10 6.8 | 3 45.4 | 0.369278 | 19 27 |
| 15 | 12 25 25.07 | −39.86 | 0 13 52.2 | +3 40.4 | 0.369844 | 19 28 |
| 16 | 12 24 45.21 | 39.22 | +0 17 32.6 | 3 35.2 | 0.370460 | 19 30 |
| 17 | 12 24 5.99 | | 0 21 7.8 | | 0.371126 | 19 32 |

Opp. in AR. März 30 Gröſse = 11.9

*P. Neugebauer.*

## (42) ISIS 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ' " | ' " | | m s |
| März 16 | 13 31 21.92 | −39.62 | +3 56 43.8 | +6 1.6 | 0.247559 | 14 41 |
| 17 | 13 30 42.30 | 40.96 | 4 2 45.4 | 6 3.3 | 0.245717 | 14 37 |
| 18 | 13 30 1.34 | 42.25 | 4 8 48.7 | 6 4.5 | 0.243928 | 14 34 |
| 19 | 13 29 19.09 | 43.49 | 4 14 53.2 | 6 5.3 | 0.242194 | 14 30 |
| 20 | 13 28 35.60 | −44.70 | 4 20 58.5 | +6 5.6 | 0.240517 | 14 27 |
| 21 | 13 27 50.90 | 45.87 | +4 27 4.1 | 6 5.5 | 0.238899 | 14 24 |
| 22 | 13 27 5.03 | 46.98 | 4 33 9.6 | 6 5.0 | 0.237340 | 14 21 |
| 23 | 13 26 18.05 | 48.04 | 4 39 14.6 | 6 4.0 | 0.235843 | 14 18 |
| 24 | 13 25 30.01 | 49.06 | 4 45 18.6 | 6 2.5 | 0.234408 | 14 15 |
| 25 | 13 24 40.95 | −50.02 | 4 51 21.1 | +6 0.6 | 0.233036 | 14 13 |
| 26 | 13 23 50.93 | 50.94 | +4 57 21.7 | 5 58.2 | 0.231727 | 14 10 |
| 27 | 13 22 59.99 | 51.82 | 5 3 19.9 | 5 55.4 | 0.230484 | 14 8 |
| 28 | 13 22 8.17 | 52.64 | 5 9 15.3 | 5 52.1 | 0.229308 | 14 5 |
| 29 | 13 21 15.53 | 53.39 | 5 15 7.4 | 5 48.4 | 0.228198 | 14 3 |
| 30 | 13 20 22.14 | −54.10 | 5 20 55.8 | +5 44.2 | 0.227156 | 14 1 |
| 31 | 13 19 28.04 | 54.74 | +5 26 40.0 | 5 39.6 | 0.226184 | 13 59 |
| April 1 | 13 18 33.30 | 55.33 | 5 32 19.6 | 5 34.7 | 0.225280 | 13 57 |
| 2 | 13 17 37.97 | 55.86 | 5 37 54.3 | 5 29.3 | 0.224446 | 13 56 |
| 3 | 13 16 42.11 | 56.32 | 5 43 23.6 | 5 23.4 | 0.223681 | 13 54 |
| 4 | 13 15 45.79 | −56.73 | 5 48 47.0 | +5 17.1 | 0.222987 | 13 53 |
| 5 | 13 14 49.06 | 57.09 | +5 54 4.1 | 5 10.5 | 0.222365 | 13 52 |
| 6 | 13 13 51.97 | 57.38 | 5 59 14.6 | 5 3.4 | 0.221813 | 13 51 |
| 7 | 13 12 54.59 | 57.60 | 6 4 18.0 | 4 56.0 | 0.221333 | 13 50 |
| 8 | 13 11 56.99 | 57.76 | 6 9 14.0 | 4 48.1 | 0.220925 | 13 49 |
| ☍ 9 | 13 10 59.23 | −57.85 | 6 14 2.1 | +4 39.9 | 0.220589 | 13 48 |
| 10 | 13 10 1.38 | 57.89 | +6 18 42.0 | 4 31.4 | 0.220324 | 13 48 |
| 11 | 13 9 3.49 | 57.86 | 6 23 13.4 | 4 22.4 | 0.220130 | 13 48 |
| 12 | 13 8 5.63 | 57.76 | 6 27 35.8 | 4 13.2 | 0.220008 | 13 47 |
| 13 | 13 7 7.87 | 57.60 | 6 31 49.0 | 4 3.6 | 0.219958 | 13 47 |
| 14 | 13 6 10.27 | −57.38 | 6 35 52.6 | +3 53.6 | 0.219979 | 13 47 |
| 15 | 13 5 12.89 | 57.08 | +6 39 46.2 | 3 43.4 | 0.220070 | 13 47 |
| 16 | 13 4 15.81 | 56.73 | 6 43 29.6 | 3 32.9 | 0.220232 | 13 48 |
| 17 | 13 3 19.08 | 56.30 | 6 47 2.5 | 3 22.0 | 0.220464 | 13 48 |
| 18 | 13 2 22.78 | 55.82 | 6 50 24.5 | 3 10.9 | 0.220764 | 13 49 |
| 19 | 13 1 26.96 | −55.27 | 6 53 35.4 | +2 59.5 | 0.221132 | 13 49 |
| 20 | 13 0 31.69 | 54.65 | +6 56 34.9 | 2 47.9 | 0.221568 | 13 50 |
| 21 | 12 59 37.04 | | 6 59 22.8 | | 0.222072 | 13 51 |

Opp. in AR. April 9 Gröſse = 10.9

*P. Neugebauer.*

## (53) KALYPSO 1909.

| $12^h$ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | m s |
| März 20 | 13 29 39.24 | −42.45 | −2 44 49.1 | +6 39.0 | 0.215369 | 13 38 |
| 21 | 13 28 56.79 | 43.47 | 2 38 10.1 | 6 41.8 | 0.214610 | 13 36 |
| 22 | 13 28 13.32 | 44.43 | 2 31 28.3 | 6 44.2 | 0.213918 | 13 35 |
| 23 | 13 27 28.89 | 45.32 | 2 24 44.1 | 6 46.0 | 0.213294 | 13 34 |
| 24 | 13 26 43.57 | −46.16 | 2 17 58.1 | +6 47.5 | 0.212738 | 13 33 |
| 25 | 13 25 57.41 | 46.93 | −2 11 10.6 | 6 48.6 | 0.212252 | 13 32 |
| 26 | 13 25 10.48 | 47.66 | 2 4 22.0 | 6 49.1 | 0.211837 | 13 32 |
| 27 | 13 24 22.82 | 48.33 | 1 57 32.9 | 6 49.2 | 0.211494 | 13 31 |
| 28 | 13 23 34.49 | 48.93 | 1 50 43.7 | 6 48.9 | 0.211223 | 13 31 |
| 29 | 13 22 45.56 | −49.47 | 1 43 54.8 | +6 48.2 | 0.211024 | 13 30 |
| 30 | 13 21 56.09 | 49.96 | −1 37 6.6 | 6 47.1 | 0.210898 | 13 30 |
| 31 | 13 21 6.13 | 50.38 | 1 30 19.5 | 6 45.4 | 0.210846 | 13 30 |
| April 1 | 13 20 15.75 | 50.73 | 1 23 34.1 | 6 43.3 | 0.210866 | 13 30 |
| 2 | 13 19 25.02 | 51.03 | 1 16 50.8 | 6 40.8 | 0.210960 | 13 30 |
| 3 | 13 18 33.99 | −51.26 | 1 10 10.0 | +6 37.8 | 0.211127 | 13 31 |
| 4 | 13 17 42.73 | 51.44 | −1 3 32.2 | 6 34.4 | 0.211368 | 13 31 |
| 5 | 13 16 51.29 | 51.55 | 0 56 57.8 | 6 30.6 | 0.211683 | 13 32 |
| 6 | 13 15 59.74 | 51.60 | 0 50 27.2 | 6 26.4 | 0.212071 | 13 32 |
| 7 | 13 15 8.14 | 51.60 | 0 44 0.8 | 6 21.9 | 0.212534 | 13 33 |
| 8 | 13 14 16.54 | −51.53 | 0 37 38.9 | +6 16.9 | 0.213070 | 13 34 |
| ☍ 9 | 13 13 25.01 | 51.39 | −0 31 22.0 | 6 11.6 | 0.213680 | 13 35 |
| 10 | 13 12 33.62 | 51.20 | 0 25 10.4 | 6 5.8 | 0.214362 | 13 37 |
| 11 | 13 11 42.42 | 50.96 | 0 19 4.6 | 5 59.8 | 0.215116 | 13 38 |
| 12 | 13 10 51.46 | 50.64 | 0 13 4.8 | 5 53.3 | 0.215941 | 13 40 |
| 13 | 13 10 0.82 | −50.28 | 0 7 11.5 | +5 46.4 | 0.216837 | 13 41 |
| 14 | 13 9 10.54 | 49.85 | −0 1 25.1 | 5 39.2 | 0.217804 | 13 43 |
| 15 | 13 8 20.69 | 49.36 | +0 4 14.1 | 5 31.8 | 0.218841 | 13 45 |
| 16 | 13 7 31.33 | 48.82 | 0 9 45.9 | 5 23.9 | 0.219946 | 13 47 |
| 17 | 13 6 42.51 | 48.22 | 0 15 9.8 | 5 15.7 | 0.221119 | 13 49 |
| 18 | 13 5 54.29 | −47.56 | 0 20 25.5 | +5 7.2 | 0.222359 | 13 52 |
| 19 | 13 5 6.73 | 46.84 | +0 25 32.7 | 4 58.4 | 0.223665 | 13 54 |
| 20 | 13 4 19.89 | 46.07 | 0 30 31.1 | 4 49.3 | 0.225036 | 13 57 |
| 21 | 13 3 33.82 | 45.26 | 0 35 20.4 | 4 39.9 | 0.226471 | 14 0 |
| 22 | 13 2 48.56 | 44.40 | 0 40 0.3 | 4 30.3 | 0.227968 | 14 3 |
| 23 | 13 2 4.16 | −43.48 | 0 44 30.6 | +4 20.6 | 0.229525 | 14 6 |
| 24 | 13 1 20.68 | 42.51 | +0 48 51.2 | 4 10.9 | 0.231141 | 14 9 |
| 25 | 13 0 38.17 | | 0 53 2.1 | | 0.232815 | 14 12 |

Opp. in AR. April 9 Größe = 11.6

*P. Neugebauer.*

## (76) FREIA 1909.

| 12^h Mittl. Zeit | AR. (h m s) | Diff. (s) | Dekl. (° ′ ″) | Diff. (′ ″) | Log. Δ | Aberr.-Zt. (m s) |
|---|---|---|---|---|---|---|
| März 24 | 13 27 19.72 | −37.32 | −9 53 9.7 | +4 0.6 | 0.409228 | 21 19 |
| 25 | 13 26 42.40 | 37.84 | 9 49 9.1 | 4 4.7 | 0.408604 | 21 17 |
| 26 | 13 26 4.56 | 38.34 | 9 45 4.4 | 4 8.4 | 0.408026 | 21 16 |
| 27 | 13 25 26.22 | 38.80 | 9 40 56.0 | 4 11.9 | 0.407496 | 21 14 |
| 28 | 13 24 47.42 | −39.22 | 9 36 44.1 | +4 15.2 | 0.407014 | 21 12 |
| 29 | 13 24 8.20 | 39.60 | −9 32 28.9 | 4 18.4 | 0.406580 | 21 11 |
| 30 | 13 23 28.60 | 39.96 | 9 28 10.5 | 4 21.2 | 0.406196 | 21 10 |
| 31 | 13 22 48.64 | 40.29 | 9 23 49.3 | 4 23.8 | 0.405860 | 21 9 |
| April 1 | 13 22 8.35 | 40.59 | 9 19 25.5 | 4 26.3 | 0.405574 | 21 8 |
| 2 | 13 21 27.76 | −40.85 | 9 14 59.2 | +4 28.5 | 0.405336 | 21 8 |
| 3 | 13 20 46.91 | 41.07 | −9 10 30.7 | 4 30.4 | 0.405149 | 21 7 |
| 4 | 13 20 5.84 | 41.26 | 9 6 0.3 | 4 32.2 | 0.405012 | 21 7 |
| 5 | 13 19 24.58 | 41.41 | 9 1 28.1 | 4 33.8 | 0.404925 | 21 6 |
| 6 | 13 18 43.17 | 41.52 | 8 56 54.3 | 4 35.0 | 0.404889 | 21 6 |
| 7 | 13 18 1.65 | −41.60 | 8 52 19.3 | +4 36.1 | 0.404903 | 21 6 |
| 8 | 13 17 20.05 | 41.64 | −8 47 43.2 | 4 36.9 | 0.404968 | 21 7 |
| 9 | 13 16 38.41 | 41.64 | 8 43 6.3 | 4 37.5 | 0.405083 | 21 7 |
| ☍ 10 | 13 15 56.77 | 41.59 | 8 38 28.8 | 4 37.8 | 0.405249 | 21 7 |
| 11 | 13 15 15.18 | 41.50 | 8 33 51.0 | 4 37.9 | 0.405466 | 21 8 |
| 12 | 13 14 33.68 | −41.38 | 8 29 13.1 | +4 37.8 | 0.405734 | 21 9 |
| 13 | 13 13 52.30 | 41.22 | −8 24 35.3 | 4 37.4 | 0.406052 | 21 10 |
| 14 | 13 13 11.08 | 41.03 | 8 19 57.9 | 4 36.8 | 0.406420 | 21 11 |
| 15 | 13 12 30.05 | 40.78 | 8 15 21.1 | 4 35.9 | 0.406839 | 21 12 |
| 16 | 13 11 49.27 | 40.50 | 8 10 45.2 | 4 34.8 | 0.407308 | 21 13 |
| 17 | 13 11 8.77 | −40.20 | 8 6 10.4 | +4 33.4 | 0.407827 | 21 15 |
| 18 | 13 10 28.57 | 39.84 | −8 1 37.0 | 4 31.8 | 0.408395 | 21 17 |
| 19 | 13 9 48.73 | 39.44 | 7 57 5.2 | 4 29.9 | 0.409013 | 21 18 |
| 20 | 13 9 9.29 | 39.02 | 7 52 35.3 | 4 27.7 | 0.409679 | 21 20 |
| 21 | 13 8 30.27 | 38.57 | 7 48 7.6 | 4 25.3 | 0.410394 | 21 22 |
| 22 | 13 7 51.70 | −38.07 | 7 43 42.3 | +4 22.6 | 0.411156 | 21 25 |
| 23 | 13 7 13.63 | 37.54 | −7 39 19.7 | 4 19.8 | 0.411964 | 21 27 |
| 24 | 13 6 36.09 | 36.97 | 7 34 59.9 | 4 16.7 | 0.412818 | 21 30 |
| 25 | 13 5 59.12 | 36.38 | 7 30 43.2 | 4 13.4 | 0.413718 | 21 32 |
| 26 | 13 5 22.74 | 35.76 | 7 26 29.8 | 4 10.0 | 0.414662 | 21 35 |
| 27 | 13 4 46.98 | −35.10 | 7 22 19.8 | +4 6.4 | 0.415650 | 21 38 |
| 28 | 13 4 11.88 | 34.40 | −7 18 13.4 | 4 2.4 | 0.416681 | 21 41 |
| 29 | 13 3 37.48 | | 7 14 11.0 | | 0.417754 | 21 44 |

Opp. in AR. April 10 Gröfse = 12.2

*P. Neugebauer.*

## (37) FIDES 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| März 28 | 13h 42m 18s.70 | −47s.81 | −11° 44′ 24″.5 | +3′ 24″.5 | 0.291092 | 16m 14s |
| 29 | 13 41 30.89 | 48.56 | 11 41 0.0 | 3 29.7 | 0.290288 | 16 13 |
| 30 | 13 40 42.33 | 49.26 | 11 37 30.3 | 3 34.7 | 0.289544 | 16 11 |
| 31 | 13 39 53.07 | 49.92 | 11 33 55.6 | 3 39.5 | 0.288860 | 16 9 |
| April 1 | 13 39 3.15 | −50.52 | 11 30 16.1 | +3 44.0 | 0.288235 | 16 8 |
| 2 | 13 38 12.63 | 51.07 | −11 26 32.1 | 3 48.4 | 0.287671 | 16 7 |
| 3 | 13 37 21.56 | 51.57 | 11 22 43.7 | 3 52.4 | 0.287169 | 16 6 |
| 4 | 13 36 29.99 | 52.02 | 11 18 51.3 | 3 56.1 | 0.286729 | 16 5 |
| 5 | 13 35 37.97 | 52.42 | 11 14 55.2 | 3 59.6 | 0.286352 | 16 4 |
| 6 | 13 34 45.55 | −52.77 | 11 10 55.6 | +4 2.9 | 0.286039 | 16 3 |
| 7 | 13 33 52.78 | 53.06 | −11 6 52.7 | 4 6.1 | 0.285790 | 16 3 |
| 8 | 13 32 59.72 | 53.31 | 11 2 46.6 | 4 8.8 | 0.285606 | 16 2 |
| 9 | 13 32 6.41 | 53.49 | 10 58 37.8 | 4 11.2 | 0.285486 | 16 2 |
| 10 | 13 31 12.92 | 53.62 | 10 54 26.6 | 4 13.4 | 0.285430 | 16 2 |
| 11 | 13 30 19.30 | −53.70 | 10 50 13.2 | +4 15.3 | 0.285440 | 16 2 |
| 12 | 13 29 25.60 | 53.72 | −10 45 57.9 | 4 17.0 | 0.285516 | 16 2 |
| ☍ 13 | 13 28 31.88 | 53.68 | 10 41 40.9 | 4 18.3 | 0.285656 | 16 2 |
| 14 | 13 27 38.20 | 53.58 | 10 37 22.6 | 4 19.2 | 0.285862 | 16 3 |
| 15 | 13 26 44.62 | 53.44 | 10 33 3.4 | 4 19.8 | 0.286132 | 16 3 |
| 16 | 13 25 51.18 | −53.23 | 10 28 43.6 | +4 20.2 | 0.286468 | 16 4 |
| 17 | 13 24 57.95 | 52.96 | −10 24 23.4 | 4 20.3 | 0.286870 | 16 5 |
| 18 | 13 24 4.99 | 52.64 | 10 20 3.1 | 4 19.9 | 0.287336 | 16 6 |
| 19 | 13 23 12.35 | 52.25 | 10 15 43.2 | 4 19.2 | 0.287866 | 16 7 |
| 20 | 13 22 20.10 | 51.81 | 10 11 24.0 | 4 18.2 | 0.288461 | 16 9 |
| 21 | 13 21 28.29 | −51.31 | 10 7 5.8 | +4 16.9 | 0.289120 | 16 10 |
| 22 | 13 20 36.98 | 50.76 | −10 2 48.9 | 4 15.3 | 0.289842 | 16 12 |
| 23 | 13 19 46.22 | 50.16 | 9 58 33.6 | 4 13.2 | 0.290625 | 16 13 |
| 24 | 13 18 56.06 | 49.52 | 9 54 20.4 | 4 10.9 | 0.291470 | 16 15 |
| 25 | 13 18 6.54 | 48.83 | 9 50 9.5 | 4 8.3 | 0.292375 | 16 17 |
| 26 | 13 17 17.71 | −48.09 | 9 46 1.2 | +4 5.5 | 0.293339 | 16 20 |
| 27 | 13 16 29.62 | 47.32 | − 9 41 55.7 | 4 2.3 | 0.294361 | 16 22 |
| 28 | 13 15 42.30 | 46.51 | 9 37 53.4 | 3 59.0 | 0.295441 | 16 24 |
| 29 | 13 14 55.79 | 45.66 | 9 33 54.4 | 3 55.4 | 0.296578 | 16 27 |
| 30 | 13 14 10.13 | 44.76 | 9 29 59.0 | 3 51.4 | 0.297770 | 16 30 |
| Mai 1 | 13 13 25.37 | −43.83 | 9 26 7.6 | +3 47.2 | 0.299016 | 16 32 |
| 2 | 13 12 41.54 | 42.87 | − 9 22 20.4 | 3 42.9 | 0.300316 | 16 35 |
| 3 | 13 11 58.67 | | 9 18 37.5 | | 0.301668 | 16 38 |

Opp. in AR. April 13 Gröfse = 11.0

*P. Neugebauer.*

## (241) GERMANIA 1909.

| 12h Mittl. Zeit | AR. h m s | Diff. s | Dekl. ° ′ ″ | Diff. ′ ″ | Log. Δ | Aberr.-Zt. m s |
|---|---|---|---|---|---|---|
| April 7 | 13 53 15.08 | −43.85 | −19 7 11.4 | +3 43.3 | 0.361197 | 19 5 |
| 8 | 13 52 31.23 | 44.34 | 19 3 28.1 | 3 49.8 | 0.360324 | 19 3 |
| 9 | 13 51 46.89 | 44.77 | 18 59 38.3 | 3 56.3 | 0.359503 | 19 1 |
| 10 | 13 51 2.12 | 45.19 | 18 55 42.0 | 4 2.7 | 0.358732 | 18 59 |
| 11 | 13 50 16.93 | −45.54 | 18 51 39.3 | +4 8.7 | 0.358014 | 18 57 |
| 12 | 13 49 31.39 | 45.85 | −18 47 30.6 | 4 14.8 | 0.357349 | 18 55 |
| 13 | 13 48 45.54 | 46.13 | 18 43 15.8 | 4 20.5 | 0.356738 | 18 53 |
| 14 | 13 47 59.41 | 46.35 | 18 38 55.3 | 4 26.1 | 0.356181 | 18 52 |
| 15 | 13 47 13.06 | 46.53 | 18 34 29.2 | 4 31.3 | 0.355678 | 18 51 |
| 16 | 13 46 26.53 | −46.65 | 18 29 57.9 | +4 36.5 | 0.355231 | 18 49 |
| 17 | 13 45 39.88 | 46.73 | −18 25 21.4 | 4 41.2 | 0.354838 | 18 48 |
| ☍ 18 | 13 44 53.15 | 46.75 | 18 20 40.2 | 4 45.8 | 0.354501 | 18 48 |
| 19 | 13 44 6.40 | 46.73 | 18 15 54.4 | 4 50.1 | 0.354221 | 18 47 |
| 20 | 13 43 19.67 | 46.66 | 18 11 4.3 | 4 54.0 | 0.353996 | 18 46 |
| 21 | 13 42 33.01 | −46.53 | 18 6 10.3 | +4 57.7 | 0.353828 | 18 46 |
| 22 | 13 41 46.48 | 46.35 | −18 1 12.6 | 5 1.2 | 0.353715 | 18 45 |
| 23 | 13 41 0.13 | 46.14 | 17 56 11.4 | 5 4.1 | 0.353659 | 18 45 |
| 24 | 13 40 13.99 | 45.86 | 17 51 7.3 | 5 7.0 | 0.353659 | 18 45 |
| 25 | 13 39 28.13 | 45.55 | 17 46 0.3 | 5 9.4 | 0.353714 | 18 45 |
| 26 | 13 38 42.58 | −45.20 | 17 40 50.9 | +5 11.5 | 0.353825 | 18 46 |
| 27 | 13 37 57.38 | 44.79 | −17 35 39.4 | 5 13.5 | 0.353991 | 18 46 |
| 28 | 13 37 12.59 | 44.34 | 17 30 25.9 | 5 14.9 | 0.354212 | 18 47 |
| 29 | 13 36 28.25 | 43.86 | 17 25 11.0 | 5 16.2 | 0.354488 | 18 47 |
| 30 | 13 35 44.39 | 43.33 | 17 19 54.8 | 5 17.2 | 0.354817 | 18 48 |
| Mai 1 | 13 35 1.06 | −42.77 | 17 14 37.6 | +5 17.8 | 0.355200 | 18 49 |
| 2 | 13 34 18.29 | 42.16 | −17 9 19.8 | 5 18.2 | 0.355636 | 18 50 |
| 3 | 13 33 36.13 | 41.52 | 17 4 1.6 | 5 18.2 | 0.356124 | 18 52 |
| 4 | 13 32 54.61 | 40.84 | 16 58 43.4 | 5 17.9 | 0.356665 | 18 53 |
| 5 | 13 32 13.77 | 40.13 | 16 53 25.5 | 5 17.4 | 0.357257 | 18 55 |
| 6 | 13 31 33.64 | −39.38 | 16 48 8.1 | +5 16.6 | 0.357899 | 18 56 |
| 7 | 13 30 54.26 | 38.60 | −16 42 51.5 | 5 15.5 | 0.358591 | 18 58 |
| 8 | 13 30 15.66 | 37.79 | 16 37 36.0 | 5 14.1 | 0.359332 | 19 0 |
| 9 | 13 29 37.87 | 36.95 | 16 32 21.9 | 5 12.5 | 0.360122 | 19 2 |
| 10 | 13 29 0.92 | 36.07 | 16 27 9.4 | 5 10.5 | 0.360960 | 19 4 |
| 11 | 13 28 24.85 | −35.17 | 16 21 58.9 | +5 8.3 | 0.361844 | 19 7 |
| 12 | 13 27 49.68 | 34.24 | −16 16 50.6 | 5 5.8 | 0.362775 | 19 9 |
| 13 | 13 27 15.44 | | 16 11 44.8 | | 0.363751 | 19 12 |

Opp. in AR. April 18 Gröſse = 11.6

*W. Luther.*

## (270) ANAHITA 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | m s |
| April 1 | 14 5 9.15 | −48.28 | −15 52 59.8 | +4 10.1 | 0.150848 | 11 45 |
| 2 | 14 4 20.87 | 49.59 | 15 48 49.7 | 4 20.2 | 0.148855 | 11 42 |
| 3 | 14 3 31.28 | 50.85 | 15 44 29.5 | 4 30.0 | 0.146927 | 11 39 |
| 4 | 14 2 40.43 | 52.05 | 15 39 59.5 | 4 39.5 | 0.145067 | 11 36 |
| 5 | 14 1 48.38 | −53.20 | 15 35 20.0 | +4 48.8 | 0.143276 | 11 33 |
| 6 | 14 0 55.18 | 54.27 | −15 30 31.2 | 4 57.8 | 0.141554 | 11 31 |
| 7 | 14 0 0.91 | 55.28 | 15 25 33.4 | 5 6.6 | 0.139905 | 11 28 |
| 8 | 13 59 5.63 | 56.21 | 15 20 26.8 | 5 15.2 | 0.138329 | 11 26 |
| 9 | 13 58 9.42 | 57.10 | 15 15 11.6 | 5 23.4 | 0.136829 | 11 23 |
| 10 | 13 57 12.32 | −57.91 | 15 9 48.2 | +5 31.4 | 0.135405 | 11 21 |
| 11 | 13 56 14.41 | 58.66 | −15 4 16.8 | 5 39.0 | 0.134058 | 11 19 |
| 12 | 13 55 15.75 | 59.35 | 14 58 37.8 | 5 46.4 | 0.132789 | 11 17 |
| 13 | 13 54 16.40 | 59.96 | 14 52 51.4 | 5 53.3 | 0.131600 | 11 15 |
| 14 | 13 53 16.44 | 60.51 | 14 46 58.1 | 5 59.9 | 0.130492 | 11 13 |
| 15 | 13 52 15.93 | −60.97 | 14 40 58.2 | +6 6.2 | 0.129469 | 11 12 |
| 16 | 13 51 14.96 | 61.35 | −14 34 52.0 | 6 11.9 | 0.128532 | 11 10 |
| 17 | 13 50 13.61 | 61.64 | 14 28 40.1 | 6 17.3 | 0.127682 | 11 9 |
| 18 | 13 49 11.97 | 61.85 | 14 22 22.8 | 6 22.2 | 0.126918 | 11 8 |
| ☍ 19 | 13 48 10.12 | 61.96 | 14 16 0.6 | 6 26.6 | 0.126240 | 11 7 |
| 20 | 13 47 8.16 | −62.00 | 14 9 34.0 | +6 30.5 | 0.125648 | 11 6 |
| 21 | 13 46 6.16 | 61.93 | −14 3 3.5 | 6 33.8 | 0.125142 | 11 5 |
| 22 | 13 45 4.23 | 61.78 | 13 56 29.7 | 6 36.7 | 0.124722 | 11 4 |
| 23 | 13 44 2.45 | 61.54 | 13 49 53.0 | 6 39.1 | 0.124390 | 11 4 |
| 24 | 13 43 0.91 | 61.22 | 13 43 13.9 | 6 40.9 | 0.124145 | 11 3 |
| 25 | 13 41 59.69 | −60.82 | 13 36 33.0 | +6 42.1 | 0.123987 | 11 3 |
| 26 | 13 40 58.87 | 60.34 | −13 29 50.9 | 6 42.8 | 0.123916 | 11 3 |
| 27 | 13 39 58.53 | 59.78 | 13 23 8.1 | 6 42.9 | 0.123931 | 11 3 |
| 28 | 13 38 58.75 | 59.16 | 13 16 25.2 | 6 42.6 | 0.124031 | 11 3 |
| 29 | 13 37 59.59 | 58.46 | 13 9 42.6 | 6 41.8 | 0.124217 | 11 4 |
| 30 | 13 37 1.13 | −57.69 | 13 3 0.8 | +6 40.3 | 0.124487 | 11 4 |
| Mai 1 | 13 36 3.44 | 56.85 | −12 56 20.5 | 6 38.4 | 0.124840 | 11 5 |
| 2 | 13 35 6.59 | 55.96 | 12 49 42.1 | 6 36.0 | 0.125275 | 11 5 |
| 3 | 13 34 10.63 | 54.99 | 12 43 6.1 | 6 33.3 | 0.125791 | 11 6 |
| 4 | 13 33 15.64 | 53.96 | 12 36 32.8 | 6 30.0 | 0.126387 | 11 7 |
| 5 | 13 32 21.68 | −52.88 | 12 30 2.8 | +6 26.3 | 0.127062 | 11 8 |
| 6 | 13 31 28.80 | 51.73 | −12 23 36.5 | 6 22.1 | 0.127815 | 11 9 |
| 7 | 13 30 37.07 | | 12 17 14.4 | | 0.128646 | 11 10 |

Opp. in AR. April 19 Gröfse = 11.4

*P. Neugebauer.*

## (176) IDUNNA 1909.

| 12ʰ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | m s |
| April 5 | 14 22 13.98 | −34.64 | −8 25 23.8 | +7 40.3 | 0.443755 | 23 5 |
| 6 | 14 21 39.34 | 35.24 | 8 17 43.5 | 7 42.7 | 0.442881 | 23 2 |
| 7 | 14 21 4.10 | 35.82 | 8 10 0.8 | 7 44.8 | 0.442051 | 23 0 |
| 8 | 14 20 28.28 | 36.37 | 8 2 16.0 | 7 46.7 | 0.441265 | 22 57 |
| 9 | 14 19 51.91 | −36.90 | 7 54 29.3 | +7 48.4 | 0.440522 | 22 55 |
| 10 | 14 19 15.01 | 37.40 | −7 46 40.9 | 7 50.0 | 0.439824 | 22 52 |
| 11 | 14 18 37.61 | 37.86 | 7 38 50.9 | 7 51.2 | 0.439172 | 22 50 |
| 12 | 14 17 59.75 | 38.30 | 7 30 59.7 | 7 52.3 | 0.438566 | 22 49 |
| 13 | 14 17 21.45 | 38.70 | 7 23 7.4 | 7 53.0 | 0.438007 | 22 47 |
| 14 | 14 16 42.75 | −39.06 | 7 15 14.4 | +7 53.4 | 0.437495 | 22 45 |
| 15 | 14 16 3.69 | 39.39 | −7 7 21.0 | 7 53.5 | 0.437030 | 22 44 |
| 16 | 14 15 24.30 | 39.68 | 6 59 27.5 | 7 53.4 | 0.436612 | 22 42 |
| 17 | 14 14 44.62 | 39.94 | 6 51 34.1 | 7 53.0 | 0.436243 | 22 41 |
| 18 | 14 14 4.68 | 40.16 | 6 43 41.1 | 7 52.2 | 0.435921 | 22 40 |
| 19 | 14 13 24.52 | −40.33 | 6 35 48.9 | +7 51.2 | 0.435649 | 22 40 |
| 20 | 14 12 44.19 | 40.48 | −6 27 57.7 | 7 49.9 | 0.435427 | 22 39 |
| 21 | 14 12 3.71 | 40.59 | 6 20 7.8 | 7 48.4 | 0.435253 | 22 38 |
| 22 | 14 11 23.12 | 40.65 | 6 12 19.4 | 7 46.4 | 0.435129 | 22 37 |
| 23 | 14 10 42.47 | 40.66 | 6 4 33.0 | 7 44.2 | 0.435053 | 22 37 |
| 24 | 14 10 1.81 | −40.64 | 5 56 48.8 | +7 41.6 | 0.435027 | 22 37 |
| ☍ 25 | 14 9 21.17 | 40.60 | −5 49 7.2 | 7 38.8 | 0.435049 | 22 37 |
| 26 | 14 8 40.57 | 40.52 | 5 41 28.4 | 7 35.9 | 0.435120 | 22 38 |
| 27 | 14 8 0.05 | 40.40 | 5 33 52.5 | 7 32.6 | 0.435239 | 22 38 |
| 28 | 14 7 19.65 | 40.26 | 5 26 19.9 | 7 29.0 | 0.435407 | 22 39 |
| 29 | 14 6 39.39 | −40.07 | 5 18 50.9 | +7 25.3 | 0.435623 | 22 40 |
| 30 | 14 5 59.32 | 39.85 | −5 11 25.6 | 7 21.2 | 0.435887 | 22 40 |
| Mai 1 | 14 5 19.47 | 39.60 | 5 4 4.4 | 7 16.8 | 0.436198 | 22 41 |
| 2 | 14 4 39.87 | 39.33 | 4 56 47.6 | 7 12.3 | 0.436556 | 22 42 |
| 3 | 14 4 0.54 | 39.02 | 4 49 35.3 | 7 7.5 | 0.436961 | 22 43 |
| 4 | 14 3 21.52 | −38.67 | 4 42 27.8 | +7 2.5 | 0.437412 | 22 45 |
| 5 | 14 2 42.85 | 38.29 | −4 35 25.3 | 6 57.2 | 0.437909 | 22 46 |
| 6 | 14 2 4.56 | 37.88 | 4 28 28.1 | 6 51.8 | 0.438451 | 22 48 |
| 7 | 14 1 26.68 | 37.45 | 4 21 36.3 | 6 46.2 | 0.439037 | 22 50 |
| 8 | 14 0 49.23 | 36.98 | 4 14 50.1 | 6 40.3 | 0.439667 | 22 52 |
| 9 | 14 0 12.25 | −36.48 | 4 8 9.8 | +6 34.2 | 0.440341 | 22 54 |
| 10 | 13 59 35.77 | 35.95 | −4 1 35.6 | 6 28.0 | 0.441057 | 22 56 |
| 11 | 13 58 59.82 | | 3 55 7.6 | | 0.441816 | 22 59 |

Opp. in AR. April 25  Gröfse = 12.9

*P. Neugebauer.*

## (247) EUKRATE 1909.

| 12ʰ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| Mai 14 | 17ʰ 11ᵐ 58ˢ.61 | −68ˢ.85 | −55° 49′ 21″.4 | −5′ 45″.3 | 0.401025 | 20ᵐ 55ˢ |
| 15 | 17 10 49.76 | 70.70 | 55 55 6.7 | 5 32.3 | 0.399900 | 20 52 |
| 16 | 17 9 39.06 | 72.47 | 56 0 39.0 | 5 19.0 | 0.398809 | 20 49 |
| 17 | 17 8 26.59 | 74.19 | 56 5 58.0 | 5 5.2 | 0.397753 | 20 46 |
| 18 | 17 7 12.40 | −75.84 | 56 11 3.2 | −4 51.2 | 0.396733 | 20 43 |
| 19 | 17 5 56.56 | 77.41 | −56 15 54.4 | 4 36.6 | 0.395749 | 20 40 |
| 20 | 17 4 39.15 | 78.92 | 56 20 31.0 | 4 21.9 | 0.394803 | 20 37 |
| 21 | 17 3 20.23 | 80.34 | 56 24 52.9 | 4 6.7 | 0.393894 | 20 35 |
| 22 | 17 1 59.89 | 81.69 | 56 28 59.6 | 3 51.3 | 0.393024 | 20 32 |
| 23 | 17 0 38.20 | −82.95 | 56 32 50.9 | −3 35.6 | 0.392194 | 20 30 |
| 24 | 16 59 15.25 | 84.11 | −56 36 26.5 | 3 19.5 | 0.391403 | 20 27 |
| 25 | 16 57 51.14 | 85.20 | 56 39 46.0 | 3 3.4 | 0.390652 | 20 25 |
| 26 | 16 56 25.94 | 86.18 | 56 42 49.4 | 2 46.8 | 0.389942 | 20 23 |
| 27 | 16 54 59.76 | 87.08 | 56 45 36.2 | 2 30.3 | 0.389272 | 20 21 |
| 28 | 16 53 32.68 | −87.88 | 56 48 6.5 | −2 13.3 | 0.388644 | 20 20 |
| 29 | 16 52 4.80 | 88.58 | −56 50 19.8 | 1 56.4 | 0.388056 | 20 18 |
| 30 | 16 50 36.22 | 89.19 | 56 52 16.2 | 1 39.3 | 0.387510 | 20 17 |
| 31 | 16 49 7.03 | 89.68 | 56 53 55.5 | 1 22.0 | 0.387006 | 20 15 |
| Juni 1 | 16 47 37.35 | 90.09 | 56 55 17.5 | 1 4.7 | 0.386545 | 20 14 |
| 2 | 16 46 7.26 | −90.38 | 56 56 22.2 | −0 47.4 | 0.386125 | 20 13 |
| ☍ 3 | 16 44 36.88 | 90.58 | −56 57 9.6 | 0 30.0 | 0.385748 | 20 12 |
| 4 | 16 43 6.30 | 90.67 | 56 57 39.6 | −0 12.5 | 0.385414 | 20 11 |
| 5 | 16 41 35.63 | 90.66 | 56 57 52.1 | +0 4.8 | 0.385122 | 20 10 |
| 6 | 16 40 4.97 | 90.55 | 56 57 47.3 | 0 22.2 | 0.384873 | 20 9 |
| 7 | 16 38 34.42 | −90.34 | 56 57 25.1 | +0 39.6 | 0.384667 | 20 9 |
| 8 | 16 37 4.08 | 90.01 | −56 56 45.5 | 0 56.7 | 0.384504 | 20 8 |
| 9 | 16 35 34.07 | 89.59 | 56 55 48.8 | 1 13.9 | 0.384384 | 20 8 |
| 10 | 16 34 4.48 | 89.07 | 56 54 34.9 | 1 30.9 | 0.384307 | 20 8 |
| 11 | 16 32 35.41 | 88.42 | 56 53 4.0 | 1 47.8 | 0.384274 | 20 7 |
| 12 | 16 31 6.99 | −87.69 | 56 51 16.2 | +2 4.3 | 0.384283 | 20 8 |
| 13 | 16 29 39.30 | 86.86 | −56 49 11.9 | 2 20.8 | 0.384335 | 20 8 |
| 14 | 16 28 12.44 | 85.91 | 56 46 51.1 | 2 37.0 | 0.384430 | 20 8 |
| 15 | 16 26 46.53 | 84.88 | 56 44 14.1 | 2 52.8 | 0.384568 | 20 8 |
| 16 | 16 25 21.65 | 83.75 | 56 41 21.3 | 3 8.3 | 0.384748 | 20 9 |
| 17 | 16 23 57.90 | −82.52 | 56 38 13.0 | +3 23.6 | 0.384970 | 20 9 |
| 18 | 16 22 35.38 | 81.19 | −56 34 49.4 | 3 38.3 | 0.385234 | 20 10 |
| 19 | 16 21 14.19 | | 56 31 11.1 | | 0.385540 | 20 11 |

Opp. in AR. Juni 3  Gröſse = 12.1

*W. Luther.*

## (288) GLAUKE 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | m s |
| Juni 8 | 17 35 54.51 | −55.42 | −18 33 5.6 | −0 59.2 | 0.143510 | 11 34 |
| 9 | 17 34 59.09 | 55.70 | 18 34 4.8 | 1 1.2 | 0.143647 | 11 34 |
| 10 | 17 34 3.39 | 55.88 | 18 35 6.0 | 1 3.1 | 0.143865 | 11 34 |
| 11 | 17 33 7.51 | 55.99 | 18 36 9.1 | 1 5.1 | 0.144163 | 11 35 |
| 12 | 17 32 11.52 | −56.02 | 18 37 14.2 | −1 7.0 | 0.144541 | 11 35 |
| 13 | 17 31 15.50 | 55.98 | −18 38 21.2 | 1 8.9 | 0.144998 | 11 36 |
| ☍ 14 | 17 30 19.52 | 55.86 | 18 39 30.1 | 1 10.9 | 0.145533 | 11 37 |
| 15 | 17 29 23.66 | 55.64 | 18 40 41.0 | 1 12.8 | 0.146148 | 11 38 |
| 16 | 17 28 28.02 | 55.37 | 18 41 53.8 | 1 14.7 | 0.146841 | 11 39 |
| 17 | 17 27 32.65 | −55.01 | 18 43 8.5 | −1 16.6 | 0.147613 | 11 40 |
| 18 | 17 26 37.64 | 54.57 | −18 44 25.1 | 1 18.6 | 0.148462 | 11 42 |
| 19 | 17 25 43.07 | 54.06 | 18 45 43.7 | 1 20.5 | 0.149389 | 11 43 |
| 20 | 17 24 49.01 | 53.47 | 18 47 4.2 | 1 22.5 | 0.150392 | 11 45 |
| 21 | 17 23 55.54 | 52.81 | 18 48 26.7 | 1 24.4 | 0.151471 | 11 46 |
| 22 | 17 23 2.73 | −52.09 | 18 49 51.1 | −1 26.3 | 0.152624 | 11 48 |
| 23 | 17 22 10.64 | 51.29 | −18 51 17.4 | 1 28.3 | 0.153850 | 11 50 |
| 24 | 17 21 19.35 | 50.44 | 18 52 45.7 | 1 30.2 | 0.155149 | 11 52 |
| 25 | 17 20 28.91 | 49.52 | 18 54 15.9 | 1 32.1 | 0.156519 | 11 55 |
| 26 | 17 19 39.39 | 48.54 | 18 55 48.0 | 1 34.0 | 0.157958 | 11 57 |
| 27 | 17 18 50.85 | −47.52 | 18 57 22.0 | −1 36.0 | 0.159466 | 12 0 |
| 28 | 17 18 3.33 | 46.43 | −18 58 58.0 | 1 37.9 | 0.161041 | 12 2 |
| 29 | 17 17 16.90 | 45.29 | 19 0 35.9 | 1 39.8 | 0.162681 | 12 5 |
| 30 | 17 16 31.61 | 44.12 | 19 2 15.7 | 1 41.7 | 0.164386 | 12 8 |
| Juli 1 | 17 15 47.49 | 42.89 | 19 3 57.4 | 1 43.7 | 0.166153 | 12 11 |
| 2 | 17 15 4.60 | −41.62 | 19 5 41.1 | −1 45.5 | 0.167981 | 12 14 |
| 3 | 17 14 22.98 | 40.32 | −19 7 26.6 | 1 47.4 | 0.169869 | 12 17 |
| 4 | 17 13 42.66 | 38.97 | 19 9 14.0 | 1 49.3 | 0.171815 | 12 20 |
| 5 | 17 13 3.69 | 37.59 | 19 11 3.3 | 1 51.2 | 0.173817 | 12 24 |
| 6 | 17 12 26.10 | 36.17 | 19 12 54.5 | 1 53.1 | 0.175875 | 12 27 |
| 7 | 17 11 49.93 | −34.73 | 19 14 47.6 | −1 54.9 | 0.177986 | 12 31 |
| 8 | 17 11 15.20 | 33.23 | −19 16 42.5 | 1 56.8 | 0.180149 | 12 35 |
| 9 | 17 10 41.97 | 31.73 | 19 18 39.3 | 1 58.6 | 0.182362 | 12 39 |
| 10 | 17 10 10.24 | 30.18 | 19 20 37.9 | 2 0.6 | 0.184624 | 12 43 |
| 11 | 17 9 40.06 | 28.61 | 19 22 38.5 | 2 2.4 | 0.186933 | 12 47 |
| 12 | 17 9 11.45 | −27.01 | 19 24 40.9 | −2 4.3 | 0.189288 | 12 51 |
| 13 | 17 8 44.44 | 25.39 | −19 26 45.2 | 2 6.2 | 0.191687 | 12 55 |
| 14 | 17 8 19.05 | | 19 28 51.4 | | 0.194129 | 12 59 |

Opp. in AR. Juni 14 Größe = 11.7

*W. Luther.*

## (134) SOPHROSYNE 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | m s |
| Mai 27 | 17 51 47.26 | −58.65 | −40 48 42.8 | −2 22.5 | 0.283354 | 15 57 |
| 28 | 17 50 48.61 | 59.95 | 40 51 5.3 | 2 13.0 | 0.282176 | 15 55 |
| 29 | 17 49 48.66 | 61.20 | 40 53 18.3 | 2 3.2 | 0.281050 | 15 52 |
| 30 | 17 48 47.46 | 62.38 | 40 55 21.5 | 1 53.2 | 0.279977 | 15 50 |
| 31 | 17 47 45.08 | −63.50 | 40 57 14.7 | −1 42.8 | 0.278958 | 15 48 |
| Juni 1 | 17 46 41.58 | 64.55 | −40 58 57.5 | 1 32.2 | 0.277993 | 15 46 |
| 2 | 17 45 37.03 | 65.54 | 41 0 29.7 | 1 21.5 | 0.277083 | 15 44 |
| 3 | 17 44 31.49 | 66.47 | 41 1 51.2 | 1 10.5 | 0.276229 | 15 42 |
| 4 | 17 43 25.02 | 67.31 | 41 3 1.7 | 0 59.2 | 0.275432 | 15 40 |
| 5 | 17 42 17.71 | −68.09 | 41 4 0.9 | −0 47.8 | 0.274692 | 15 38 |
| 6 | 17 41 9.62 | 68.79 | −41 4 48.7 | 0 36.2 | 0.274010 | 15 37 |
| 7 | 17 40 0.83 | 69.42 | 41 5 24.9 | 0 24.4 | 0.273386 | 15 36 |
| 8 | 17 38 51.41 | 69.98 | 41 5 49.3 | 0 12.6 | 0.272822 | 15 34 |
| 9 | 17 37 41.43 | 70.44 | 41 6 1.9 | −0 0.7 | 0.272318 | 15 33 |
| 10 | 17 36 30.99 | −70.84 | 41 6 2.6 | +0 11.3 | 0.271874 | 15 32 |
| 11 | 17 35 20.15 | 71.16 | −41 5 51.3 | 0 23.3 | 0.271492 | 15 31 |
| 12 | 17 34 8.99 | 71.38 | 41 5 28.0 | 0 35.3 | 0.271170 | 15 31 |
| 13 | 17 32 57.61 | 71.51 | 41 4 52.7 | 0 47.4 | 0.270910 | 15 30 |
| ☍ 14 | 17 31 46.10 | 71.55 | 41 4 5.3 | 0 59.5 | 0.270712 | 15 30 |
| 15 | 17 30 34.55 | −71.51 | 41 3 5.8 | +1 11.5 | 0.270576 | 15 29 |
| 16 | 17 29 23.04 | 71.38 | −41 1 54.3 | 1 23.5 | 0.270502 | 15 29 |
| 17 | 17 28 11.66 | 71.16 | 41 0 30.8 | 1 35.4 | 0.270490 | 15 29 |
| 18 | 17 27 0.50 | 70.86 | 40 58 55.4 | 1 47.3 | 0.270539 | 15 29 |
| 19 | 17 25 49.64 | 70.47 | 40 57 8.1 | 1 59.0 | 0.270651 | 15 29 |
| 20 | 17 24 39.17 | −70.00 | 40 55 9.1 | +2 10.5 | 0.270825 | 15 30 |
| 21 | 17 23 29.17 | 69.43 | −40 52 58.6 | 2 21.8 | 0.271060 | 15 31 |
| 22 | 17 22 19.74 | 68.79 | 40 50 36.8 | 2 33.0 | 0.271356 | 15 31 |
| 23 | 17 21 10.95 | 68.06 | 40 48 3.8 | 2 44.0 | 0.271714 | 15 32 |
| 24 | 17 20 2.89 | 67.27 | 40 45 19.8 | 2 54.8 | 0.272132 | 15 33 |
| 25 | 17 18 55.62 | −66.40 | 40 42 25.0 | +3 5.2 | 0.272609 | 15 34 |
| 26 | 17 17 49.22 | 65.47 | −40 39 19.8 | 3 15.3 | 0.273145 | 15 35 |
| 27 | 17 16 43.75 | 64.46 | 40 36 4.5 | 3 25.1 | 0.273740 | 15 36 |
| 28 | 17 15 39.29 | 63.38 | 40 32 39.4 | 3 34.6 | 0.274393 | 15 38 |
| 29 | 17 14 35.91 | 62.24 | 40 29 4.8 | 3 43.8 | 0.275103 | 15 39 |
| 30 | 17 13 33.67 | −61.04 | 40 25 21.0 | +3 52.5 | 0.275869 | 15 41 |
| Juli 1 | 17 12 32.63 | 59.79 | −40 21 28.5 | 4 0.7 | 0.276690 | 15 43 |
| 2 | 17 11 32.84 | | 40 17 27.8 | | 0.277565 | 15 45 |

Opp. in AR. Juni 14 Größe = 11.7

*P. Neugebauer.*

## (46) HESTIA 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| Juni 12 | 18h 48m 13s.77 | −46s.64 | −19° 5′ 48″.3 | −0′ 8″.4 | 0.151363 | 11m 46s |
| 13 | 18 47 27.13 | 47.93 | 19 5 56.7 | 0 11.2 | 0.149535 | 11 43 |
| 14 | 18 46 39.20 | 49.15 | 19 6 7.9 | 0 14.0 | 0.147772 | 11 41 |
| 15 | 18 45 50.05 | 50.32 | 19 6 21.9 | 0 16.7 | 0.146076 | 11 38 |
| 16 | 18 44 59.73 | −51.44 | 19 6 38.6 | −0 19.4 | 0.144448 | 11 35 |
| 17 | 18 44 8.29 | 52.49 | −19 6 58.0 | 0 21.9 | 0.142890 | 11 33 |
| 18 | 18 43 15.80 | 53.47 | 19 7 19.9 | 0 24.5 | 0.141402 | 11 30 |
| 19 | 18 42 22.33 | 54.38 | 19 7 44.4 | 0 27.0 | 0.139987 | 11 28 |
| 20 | 18 41 27.95 | 55.22 | 19 8 11.4 | 0 29.4 | 0.138646 | 11 26 |
| 21 | 18 40 32.73 | −55.99 | 19 8 40.8 | −0 31.6 | 0.137380 | 11 24 |
| 22 | 18 39 36.74 | 56.69 | −19 9 12.4 | 0 33.9 | 0.136189 | 11 22 |
| 23 | 18 38 40.05 | 57.32 | 19 9 46.3 | 0 36.1 | 0.135076 | 11 20 |
| 24 | 18 37 42.73 | 57.86 | 19 10 22.4 | 0 38.2 | 0.134040 | 11 19 |
| 25 | 18 36 44.87 | 58.34 | 19 11 0.6 | 0 40.4 | 0.133082 | 11 17 |
| 26 | 18 35 46.53 | −58.73 | 19 11 41.0 | −0 42.4 | 0.132203 | 11 16 |
| 27 | 18 34 47.80 | 59.05 | −19 12 23.4 | 0 44.2 | 0.131404 | 11 15 |
| 28 | 18 33 48.75 | 59.29 | 19 13 7.6 | 0 46.0 | 0.130685 | 11 14 |
| ☍ 29 | 18 32 49.46 | 59.45 | 19 13 53.6 | 0 47.8 | 0.130046 | 11 13 |
| 30 | 18 31 50.01 | 59.54 | 19 14 41.4 | 0 49.5 | 0.129488 | 11 12 |
| Juli 1 | 18 30 50.47 | −59.56 | 19 15 30.9 | −0 51.1 | 0.129012 | 11 11 |
| 2 | 18 29 50.91 | 59.49 | −19 16 22.0 | 0 52.6 | 0.128616 | 11 10 |
| 3 | 18 28 51.42 | 59.34 | 19 17 14.6 | 0 54.0 | 0.128302 | 11 10 |
| 4 | 18 27 52.08 | 59.11 | 19 18 8.6 | 0 55.4 | 0.128070 | 11 9 |
| 5 | 18 26 52.97 | 58.81 | 19 19 4.0 | 0 56.8 | 0.127920 | 11 9 |
| 6 | 18 25 54.16 | −58.44 | 19 20 0.8 | −0 58.1 | 0.127850 | 11 9 |
| 7 | 18 24 55.72 | 57.98 | −19 20 58.9 | 0 59.4 | 0.127862 | 11 9 |
| 8 | 18 23 57.74 | 57.44 | 19 21 58.3 | 1 0.7 | 0.127954 | 11 9 |
| 9 | 18 23 0.30 | 56.84 | 19 22 59.0 | 1 1.9 | 0.128127 | 11 10 |
| 10 | 18 22 3.46 | 56.16 | 19 24 0.9 | 1 3.1 | 0.128379 | 11 10 |
| 11 | 18 21 7.30 | −55.40 | 19 25 4.0 | −1 4.2 | 0.128711 | 11 10 |
| 12 | 18 20 11.90 | 54.56 | −19 26 8.2 | 1 5.3 | 0.129121 | 11 11 |
| 13 | 18 19 17.34 | 53.66 | 19 27 13.5 | 1 6.5 | 0.129608 | 11 12 |
| 14 | 18 18 23.68 | 52.68 | 19 28 20.0 | 1 7.6 | 0.130172 | 11 13 |
| 15 | 18 17 31.00 | 51.63 | 19 29 27.6 | 1 8.6 | 0.130813 | 11 14 |
| 16 | 18 16 39.37 | −50.50 | 19 30 36.2 | −1 9.7 | 0.131531 | 11 15 |
| 17 | 18 15 48.87 | 49.30 | −19 31 45.9 | 1 10.7 | 0.132324 | 11 16 |
| 18 | 18 14 59.57 | | 19 32 56.6 | | 0.133190 | 11 17 |

Opp. in AR. Juni 29 Gröſse = 10.2

*P. Neugebauer.*

## (654) ZELINDA 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | m s |
| Juni 25 | 19 18 26.64 | −67.63 | −19 45 44.6 | +3 52.4 | 0.240263 | 14 27 |
| 26 | 19 17 19.01 | 68.24 | 19 41 52.2 | 3 52.1 | 0.239743 | 14 26 |
| 27 | 19 16 10.77 | 68.78 | 19 38 0.1 | 3 51.9 | 0.239291 | 14 25 |
| 28 | 19 15 1.99 | 69.23 | 19 34 8.2 | 3 51.7 | 0.238910 | 14 24 |
| 29 | 19 13 52.76 | −69.63 | 19 30 16.5 | +3 51.5 | 0.238598 | 14 23 |
| 30 | 19 12 43.13 | 69.98 | −19 26 25.0 | 3 51.0 | 0.238358 | 14 23 |
| Juli 1 | 19 11 33.15 | 70.23 | 19 22 34.0 | 3 50.5 | 0.238187 | 14 23 |
| 2 | 19 10 22.92 | 70.44 | 19 18 43.5 | 3 50.0 | 0.238089 | 14 22 |
| 3 | 19 9 12.48 | 70.56 | 19 14 53.5 | 3 49.6 | 0.238061 | 14 22 |
| 4 | 19 8 1.92 | −70.63 | 19 11 3.9 | +3 49.2 | 0.238104 | 14 22 |
| 5 | 19 6 51.29 | 70.61 | −19 7 14.7 | 3 48.6 | 0.238219 | 14 22 |
| 6 | 19 5 40.68 | 70.54 | 19 3 26.1 | 3 48.1 | 0.238408 | 14 22 |
| ☍ 7 | 19 4 30.14 | 70.38 | 18 59 38.0 | 3 47.4 | 0.238669 | 14 22 |
| 8 | 19 3 19.76 | 70.16 | 18 55 50.6 | 3 46.6 | 0.239001 | 14 23 |
| 9 | 19 2 9.60 | −69.88 | 18 52 4.0 | +3 45.9 | 0.239405 | 14 24 |
| 10 | 19 0 59.72 | 69.51 | −18 48 18.1 | 3 44.9 | 0.239883 | 14 25 |
| 11 | 18 59 50.21 | 69.07 | 18 44 33.2 | 3 44.2 | 0.240432 | 14 27 |
| 12 | 18 58 41.14 | 68.58 | 18 40 49.0 | 3 43.1 | 0.241053 | 14 28 |
| 13 | 18 57 32.56 | 68.03 | 18 37 5.9 | 3 41.9 | 0.241742 | 14 30 |
| 14 | 18 56 24.53 | −67.39 | 18 33 24.0 | +3 40.5 | 0.242503 | 14 32 |
| 15 | 18 55 17.14 | 66.67 | −18 29 43.5 | 3 39.1 | 0.243333 | 14 33 |
| 16 | 18 54 10.47 | 65.91 | 18 26 4.4 | 3 37.8 | 0.244230 | 14 35 |
| 17 | 18 53 4.56 | 65.07 | 18 22 26.6 | 3 36.4 | 0.245196 | 14 37 |
| 18 | 18 51 59.49 | 64.19 | 18 18 50.2 | 3 34.9 | 0.246229 | 14 39 |
| 19 | 18 50 55.30 | −63.24 | 18 15 15.3 | +3 33.4 | 0.247328 | 14 41 |
| 20 | 18 49 52.06 | 62.22 | −18 11 41.9 | 3 31.7 | 0.248491 | 14 43 |
| 21 | 18 48 49.84 | 61.14 | 18 8 10.2 | 3 30.0 | 0.249718 | 14 46 |
| 22 | 18 47 48.70 | 60.02 | 18 4 40.2 | 3 28.0 | 0.251007 | 14 49 |
| 23 | 18 46 48.68 | 58.86 | 18 1 12.2 | 3 26.3 | 0.252357 | 14 51 |
| 24 | 18 45 49.82 | −57.65 | 17 57 45.9 | +3 24.2 | 0.253766 | 14 54 |
| 25 | 18 44 52.17 | 56.39 | −17 54 21.7 | 3 22.3 | 0.255233 | 14 57 |
| 26 | 18 43 55.78 | 55.09 | 17 50 59.4 | 3 20.0 | 0.256756 | 15 1 |
| 27 | 18 43 0.69 | 53.76 | 17 47 39.4 | 3 18.0 | 0.258336 | 15 4 |
| 28 | 18 42 6.93 | 52.38 | 17 44 21.4 | 3 15.6 | 0.259969 | 15 7 |
| 29 | 18 41 14.55 | −50.98 | 17 41 5.8 | +3 13.3 | 0.261654 | 15 11 |
| 30 | 18 40 23.57 | 49.53 | −17 37 52.5 | 3 10.9 | 0.263391 | 15 14 |
| 31 | 18 39 34.04 | | 17 34 41.6 | | 0.265178 | 15 18 |

Opp. in AR. Juli 7 Größe = 12.2

*Millosevich.*

## (19) FORTUNA 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | m s |
| Juli 2 | 20 12 37.07 | −46.77 | −17 20 21.8 | −1 50.7 | 0.164410 | 12 8 |
| 3 | 20 11 50.30 | 48.07 | 17 22 12.5 | 1 55.2 | 0.162601 | 12 5 |
| 4 | 20 11 2.23 | 49.30 | 17 24 7.7 | 1 59.5 | 0.160855 | 12 2 |
| 5 | 20 10 12.93 | 50.46 | 17 26 7.2 | 2 3.6 | 0.159173 | 11 59 |
| 6 | 20 9 22.47 | −51.56 | 17 28 10.8 | −2 7.6 | 0.157557 | 11 57 |
| 7 | 20 8 30.91 | 52.62 | −17 30 18.4 | 2 11.5 | 0.156006 | 11 54 |
| 8 | 20 7 38.29 | 53.63 | 17 32 29.9 | 2 15.2 | 0.154527 | 11 52 |
| 9 | 20 6 44.66 | 54.57 | 17 34 45.1 | 2 18.7 | 0.153118 | 11 49 |
| 10 | 20 5 50.09 | 55.44 | 17 37 3.8 | 2 21.9 | 0.151780 | 11 47 |
| 11 | 20 4 54.65 | −56.26 | 17 39 25.7 | −2 24.9 | 0.150514 | 11 45 |
| 12 | 20 3 58.39 | 57.01 | −17 41 50.6 | 2 27.7 | 0.149322 | 11 43 |
| 13 | 20 3 1.38 | 57.71 | 17 44 18.3 | 2 30.4 | 0.148206 | 11 41 |
| 14 | 20 2 3.67 | 58.35 | 17 46 48.7 | 2 32.8 | 0.147168 | 11 40 |
| 15 | 20 1 5.32 | 58.90 | 17 49 21.5 | 2 35.0 | 0.146207 | 11 38 |
| 16 | 20 0 6.42 | −59.36 | 17 51 56.5 | −2 36.9 | 0.145323 | 11 37 |
| 17 | 19 59 7.06 | 59.73 | −17 54 33.4 | 2 38.7 | 0.144518 | 11 35 |
| 18 | 19 58 7.33 | 60.03 | 17 57 12.1 | 2 40.2 | 0.143793 | 11 34 |
| 19 | 19 57 7.30 | 60.24 | 17 59 52.3 | 2 41.4 | 0.143149 | 11 33 |
| ☍ 20 | 19 56 7.06 | 60.37 | 18 2 33.7 | 2 42.3 | 0.142585 | 11 32 |
| 21 | 19 55 6.69 | −60.42 | 18 5 16.0 | −2 43.1 | 0.142102 | 11 31 |
| 22 | 19 54 6.27 | 60.40 | −18 7 59.1 | 2 43.6 | 0.141700 | 11 31 |
| 23 | 19 53 5.87 | 60.29 | 18 10 42.7 | 2 44.0 | 0.141380 | 11 30 |
| 24 | 19 52 5.58 | 60.10 | 18 13 26.7 | 2 44.2 | 0.141142 | 11 30 |
| 25 | 19 51 5.48 | 59.84 | 18 16 10.9 | 2 44.3 | 0.140985 | 11 30 |
| 26 | 19 50 5.64 | −59.51 | 18 18 55.2 | −2 44.0 | 0.140908 | 11 30 |
| 27 | 19 49 6.13 | 59.10 | −18 21 39.2 | 2 43.5 | 0.140911 | 11 30 |
| 28 | 19 48 7.03 | 58.61 | 18 24 22.7 | 2 42.8 | 0.140994 | 11 30 |
| 29 | 19 47 8.42 | 58.05 | 18 27 5.5 | 2 41.9 | 0.141157 | 11 30 |
| 30 | 19 46 10.37 | 57.42 | 18 29 47.4 | 2 40.8 | 0.141400 | 11 30 |
| 31 | 19 45 12.95 | −56.71 | 18 32 28.2 | −2 39.7 | 0.141720 | 11 31 |
| Aug. 1 | 19 44 16.24 | 55.93 | −18 35 7.9 | 2 38.4 | 0.142118 | 11 32 |
| 2 | 19 43 20.31 | 55.09 | 18 37 46.3 | 2 37.0 | 0.142592 | 11 32 |
| 3 | 19 42 25.22 | 54.17 | 18 40 23.3 | 2 35.4 | 0.143142 | 11 33 |
| 4 | 19 41 31.05 | 53.18 | 18 42 58.7 | 2 33.7 | 0.143767 | 11 34 |
| 5 | 19 40 37.87 | −52.12 | 18 45 32.4 | −2 31.9 | 0.144466 | 11 35 |
| 6 | 19 39 45.75 | 51.00 | −18 48 4.3 | 2 29.9 | 0.145238 | 11 37 |
| 7 | 19 38 54.75 | | 18 50 34.2 | | 0.146083 | 11 39 |

Opp. in AR. Juli 20 Größe = 9.7

*P. Neugebauer.*

## (95) ARETHUSA 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | m s |
| Juli 16 | 20 25 10.91 | −46.44 | −2 9 49.0 | +0 56.0 | 0.304538 | 16 45 |
| 17 | 20 24 24.47 | 46.86 | 2 8 53.0 | 0 47.0 | 0.303579 | 16 43 |
| 18 | 20 23 37.61 | 47.26 | 2 8 6.0 | 0 37.9 | 0.302675 | 16 41 |
| 19 | 20 22 50.35 | 47.64 | 2 7 28.1 | 0 28.9 | 0.301826 | 16 39 |
| 20 | 20 22 2.71 | −47.97 | 2 6 59.2 | +0 20.0 | 0.301032 | 16 37 |
| 21 | 20 21 14.74 | 48.25 | −2 6 39.2 | 0 11.2 | 0.300294 | 16 35 |
| 22 | 20 20 26.49 | 48.48 | 2 6 28.0 | +0 2.4 | 0.299612 | 16 34 |
| 23 | 20 19 38.01 | 48.66 | 2 6 25.6 | −0 6.3 | 0.298986 | 16 32 |
| 24 | 20 18 49.35 | 48.80 | 2 6 31.9 | 0 15.1 | 0.298417 | 16 31 |
| ☍ 25 | 20 18 0.55 | −48.88 | 2 6 47.0 | −0 23.6 | 0.297906 | 16 30 |
| 26 | 20 17 11.67 | 48.93 | −2 7 10.6 | 0 31.9 | 0.297452 | 16 29 |
| 27 | 20 16 22.74 | 48.93 | 2 7 42.5 | 0 40.0 | 0.297056 | 16 28 |
| 28 | 20 15 33.81 | 48.88 | 2 8 22.5 | 0 48.1 | 0.296718 | 16 27 |
| 29 | 20 14 44.93 | 48.78 | 2 9 10.6 | 0 56.3 | 0.296438 | 16 27 |
| 30 | 20 13 56.15 | −48.64 | 2 10 6.9 | −1 4.4 | 0.296215 | 16 26 |
| 31 | 20 13 7.51 | 48.45 | −2 11 11.3 | 1 12.3 | 0.296050 | 16 26 |
| Aug. 1 | 20 12 19.06 | 48.21 | 2 12 23.6 | 1 20.1 | 0.295943 | 16 25 |
| 2 | 20 11 30.85 | 47.92 | 2 13 43.7 | 1 27.6 | 0.295893 | 16 25 |
| 3 | 20 10 42.93 | 47.58 | 2 15 11.3 | 1 35.1 | 0.295901 | 16 25 |
| 4 | 20 9 55.35 | −47.20 | 2 16 46.4 | −1 42.4 | 0.295966 | 16 26 |
| 5 | 20 9 8.15 | 46.76 | −2 18 28.8 | 1 49.5 | 0.296089 | 16 26 |
| 6 | 20 8 21.39 | 46.28 | 2 20 18.3 | 1 56.5 | 0.296269 | 16 27 |
| 7 | 20 7 35.11 | 45.75 | 2 22 14.8 | 2 3.3 | 0.296507 | 16 27 |
| 8 | 20 6 49.36 | 45.17 | 2 24 18.1 | 2 10.0 | 0.296802 | 16 27 |
| 9 | 20 6 4.19 | −44.53 | 2 26 28.1 | −2 16.4 | 0.297153 | 16 28 |
| 10 | 20 5 19.66 | 43.86 | −2 28 44.5 | 2 22.7 | 0.297559 | 16 29 |
| 11 | 20 4 35.80 | 43.15 | 2 31 7.2 | 2 28.8 | 0.298020 | 16 30 |
| 12 | 20 3 52.65 | 42.39 | 2 33 36.0 | 2 34.6 | 0.298535 | 16 31 |
| 13 | 20 3 10.26 | 41.59 | 2 36 10.6 | 2 40.2 | 0.299103 | 16 33 |
| 14 | 20 2 28.67 | −40.75 | 2 38 50.8 | −2 45.5 | 0.299725 | 16 34 |
| 15 | 20 1 47.92 | 39.86 | −2 41 36.3 | 2 50.8 | 0.300401 | 16 36 |
| 16 | 20 1 8.06 | 38.92 | 2 44 27.1 | 2 55.8 | 0.301129 | 16 37 |
| 17 | 20 0 29.14 | 37.94 | 2 47 22.9 | 3 0.4 | 0.301908 | 16 39 |
| 18 | 19 59 51.20 | 36.92 | 2 50 23.3 | 3 4.9 | 0.302738 | 16 41 |
| 19 | 19 59 14.28 | −35.88 | 2 53 28.2 | −3 9.1 | 0.303617 | 16 43 |
| 20 | 19 58 38.40 | 34.81 | −2 56 37.3 | 3 13.0 | 0.304544 | 16 45 |
| 21 | 19 58 3.59 | | 2 59 50.3 | | 0.305518 | 16 47 |

Opp. in AR. Juli 25    Gröfse = 11.1

*P. Neugebauer.*

## (57) MNEMOSYNE 1909.

| 12ʰ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| Aug. 7 | 22ʰ 8ᵐ 4ˢ.93 | −36ˢ.44 | +6° 59′ 44″.8 | −3′ 47″.6 | 0.323682 | 17ᵐ 30ˢ |
| 8 | 22 7 28.49 | 37.08 | 6 55 57.2 | 3 59.6 | 0.322475 | 17 27 |
| 9 | 22 6 51.41 | 37.68 | 6 51 57.6 | 4 11.6 | 0.321314 | 17 25 |
| 10 | 22 6 13.73 | 38.24 | 6 47 46.0 | 4 23.4 | 0.320201 | 17 22 |
| 11 | 22 5 35.49 | −38.75 | 6 43 22.6 | −4 35.2 | 0.319137 | 17 19 |
| 12 | 22 4 56.74 | 39.21 | +6 38 47.4 | 4 46.9 | 0.318123 | 17 17 |
| 13 | 22 4 17.53 | 39.62 | 6 34 0.5 | 4 58.4 | 0.317160 | 17 15 |
| 14 | 22 3 37.91 | 40.00 | 6 29 2.1 | 5 9.7 | 0.316249 | 17 13 |
| 15 | 22 2 57.91 | 40.32 | 6 23 52.4 | 5 20.9 | 0.315391 | 17 11 |
| 16 | 22 2 17.59 | −40.59 | 6 18 31.5 | −5 31.8 | 0.314586 | 17 9 |
| 17 | 22 1 37.00 | 40.82 | +6 12 59.7 | 5 42.6 | 0.313834 | 17 7 |
| 18 | 22 0 56.18 | 41.02 | 6 7 17.1 | 5 53.0 | 0.313137 | 17 5 |
| 19 | 22 0 15.16 | 41.16 | 6 1 24.1 | 6 3.2 | 0.312495 | 17 4 |
| ☍ 20 | 21 59 34.00 | 41.25 | 5 55 20.9 | 6 13.2 | 0.311908 | 17 2 |
| 21 | 21 58 52.75 | −41.30 | 5 49 7.7 | −6 22.8 | 0.311377 | 17 1 |
| 22 | 21 58 11.45 | 41.30 | +5 42 44.9 | 6 32.2 | 0.310903 | 17 0 |
| 23 | 21 57 30.15 | 41.26 | 5 36 12.7 | 6 41.3 | 0.310486 | 16 59 |
| 24 | 21 56 48.89 | 41.18 | 5 29 31.4 | 6 50.0 | 0.310126 | 16 58 |
| 25 | 21 56 7.71 | 41.05 | 5 22 41.4 | 6 58.4 | 0.309823 | 16 57 |
| 26 | 21 55 26.66 | −40.87 | 5 15 43.0 | −7 6.5 | 0.309577 | 16 57 |
| 27 | 21 54 45.79 | 40.65 | +5 8 36.5 | 7 14.3 | 0.309389 | 16 56 |
| 28 | 21 54 5.14 | 40.38 | 5 1 22.2 | 7 21.7 | 0.309258 | 16 56 |
| 29 | 21 53 24.76 | 40.06 | 4 54 0.5 | 7 28.8 | 0.309185 | 16 56 |
| 30 | 21 52 44.70 | 39.71 | 4 46 31.7 | 7 35.6 | 0.309170 | 16 56 |
| 31 | 21 52 4.99 | −39.31 | 4 38 56.1 | −7 42.0 | 0.309212 | 16 56 |
| Sept. 1 | 21 51 25.68 | 38.87 | +4 31 14.1 | 7 48.2 | 0.309312 | 16 56 |
| 2 | 21 50 46.81 | 38.39 | 4 23 25.9 | 7 53.9 | 0.309469 | 16 57 |
| 3 | 21 50 8.42 | 37.87 | 4 15 32.0 | 7 59.3 | 0.309684 | 16 57 |
| 4 | 21 49 30.55 | 37.30 | 4 7 32.7 | 8 4.2 | 0.309956 | 16 58 |
| 5 | 21 48 53.25 | −36.70 | 3 59 28.5 | −8 8.8 | 0.310286 | 16 58 |
| 6 | 21 48 16.55 | 36.06 | +3 51 19.7 | 8 12.9 | 0.310672 | 16 59 |
| 7 | 21 47 40.49 | 35.38 | 3 43 6.8 | 8 16.6 | 0.311114 | 17 0 |
| 8 | 21 47 5.11 | 34.65 | 3 34 50.2 | 8 20.0 | 0.311612 | 17 2 |
| 9 | 21 46 30.46 | 33.87 | 3 26 30.2 | 8 23.0 | 0.312164 | 17 3 |
| 10 | 21 45 56.59 | −33.05 | 3 18 7.2 | −8 25.5 | 0.312770 | 17 4 |
| 11 | 21 45 23.54 | 32.20 | +3 9 41.7 | 8 27.6 | 0.313430 | 17 6 |
| 12 | 21 44 51.34 | | 3 1 14.1 | | 0.314142 | 17 8 |

Opp. in AR. Aug. 20 Gröfse = 10.5

*P. Neugebauer.*

## (82) ALKMENE 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | m s |
| Aug. 20 | 23 5 52.71 | −43.94 | −9 3 18.0 | −4 26.6 | 0.362113 | 19 7 |
| 21 | 23 5 8.77 | 44.60 | 9 7 44.6 | 4 28.9 | 0.361202 | 19 5 |
| 22 | 23 4 24.17 | 45.20 | 9 12 13.5 | 4 30.8 | 0.360343 | 19 3 |
| 23 | 23 3 38.97 | 45.78 | 9 16 44.3 | 4 32.5 | 0.359534 | 19 1 |
| 24 | 23 2 53.19 | −46.31 | 9 21 16.8 | −4 33.8 | 0.358778 | 18 59 |
| 25 | 23 2 6.88 | 46.80 | −9 25 50.6 | 4 34.8 | 0.358075 | 18 57 |
| 26 | 23 1 20.08 | 47.25 | 9 30 25.4 | 4 35.7 | 0.357425 | 18 55 |
| 27 | 23 0 32.83 | 47.66 | 9 35 1.1 | 4 36.2 | 0.356829 | 18 54 |
| 28 | 22 59 45.17 | 48.04 | 9 39 37.3 | 4 36.5 | 0.356288 | 18 52 |
| 29 | 22 58 57.13 | −48.36 | 9 44 13.8 | −4 36.4 | 0.355801 | 18 51 |
| 30 | 22 58 8.77 | 48.65 | −9 48 50.2 | 4 36.2 | 0.355369 | 18 50 |
| 31 | 22 57 20.12 | 48.90 | 9 53 26.4 | 4 35.6 | 0.354993 | 18 49 |
| Sept. 1 | 22 56 31.22 | 49.10 | 9 58 2.0 | 4 34.8 | 0.354672 | 18 48 |
| 2 | 22 55 42.12 | 49.26 | 10 2 36.8 | 4 33.7 | 0.354407 | 18 47 |
| 3 | 22 54 52.86 | −49.38 | 10 7 10.5 | −4 32.4 | 0.354198 | 18 47 |
| ☍ 4 | 22 54 3.48 | 49.45 | −10 11 42.9 | 4 30.7 | 0.354046 | 18 46 |
| 5 | 22 53 14.03 | 49.48 | 10 16 13.6 | 4 28.9 | 0.353950 | 18 46 |
| 6 | 22 52 24.55 | 49.45 | 10 20 42.5 | 4 26.7 | 0.353911 | 18 46 |
| 7 | 22 51 35.10 | 49.38 | 10 25 9.2 | 4 24.2 | 0.353929 | 18 46 |
| 8 | 22 50 45.72 | −49.27 | 10 29 33.4 | −4 21.6 | 0.354003 | 18 46 |
| 9 | 22 49 56.45 | 49.11 | −10 33 55.0 | 4 18.5 | 0.354134 | 18 47 |
| 10 | 22 49 7.34 | 48.89 | 10 38 13.5 | 4 15.4 | 0.354322 | 18 47 |
| 11 | 22 48 18.45 | 48.64 | 10 42 28.9 | 4 11.8 | 0.354566 | 18 48 |
| 12 | 22 47 29.81 | 48.32 | 10 46 40.7 | 4 8.1 | 0.354866 | 18 48 |
| 13 | 22 46 41.49 | −47.98 | 10 50 48.8 | −4 4.0 | 0.355221 | 18 49 |
| 14 | 22 45 53.51 | 47.56 | −10 54 52.8 | 3 59.8 | 0.355632 | 18 50 |
| 15 | 22 45 5.95 | 47.12 | 10 58 52.6 | 3 55.2 | 0.356097 | 18 52 |
| 16 | 22 44 18.83 | 46.63 | 11 2 47.8 | 3 50.6 | 0.356617 | 18 53 |
| 17 | 22 43 32.20 | 46.09 | 11 6 38.4 | 3 45.6 | 0.357191 | 18 54 |
| 18 | 22 42 46.11 | −45.51 | 11 10 24.0 | −3 40.4 | 0.357817 | 18 56 |
| 19 | 22 42 0.60 | 44.88 | −11 14 4.4 | 3 35.1 | 0.358495 | 18 58 |
| 20 | 22 41 15.72 | 44.23 | 11 17 39.5 | 3 29.6 | 0.359226 | 19 0 |
| 21 | 22 40 31.49 | 43.52 | 11 21 9.1 | 3 23.7 | 0.360006 | 19 2 |
| 22 | 22 39 47.97 | 42.78 | 11 24 32.8 | 3 17.8 | 0.360837 | 19 4 |
| 23 | 22 39 5.19 | −42.00 | 11 27 50.6 | −3 11.7 | 0.361717 | 19 6 |
| 24 | 22 38 23.19 | 41.19 | −11 31 2.3 | 3 5.4 | 0.362644 | 19 9 |
| 25 | 22 37 42.00 | | 11 34 7.7 | | 0.363618 | 19 11 |

Opp. in AR. Sept. 4 Gröſse = 12.1

*W. Luther.*

## (184) DEJOPEJA 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | m s |
| Sept. 4 | 0 7 10.01 | −37.67 | +1 27 12.3 | −3 44.3 | 0.382958 | 20 4 |
| 5 | 0 6 32.34 | 38.29 | 1 23 28.0 | 3 48.6 | 0.382146 | 20 2 |
| 6 | 0 5 54.05 | 38.88 | 1 19 39.4 | 3 52.8 | 0.381382 | 20 0 |
| 7 | 0 5 15.17 | 39.44 | 1 15 46.6 | 3 56.8 | 0.380665 | 19 58 |
| 8 | 0 4 35.73 | −39.96 | 1 11 49.8 | −4 0.4 | 0.379996 | 19 56 |
| 9 | 0 3 55.77 | 40.46 | +1 7 49.4 | 4 3.9 | 0.379377 | 19 54 |
| 10 | 0 3 15.31 | 40.93 | 1 3 45.5 | 4 7.1 | 0.378808 | 19 52 |
| 11 | 0 2 34.38 | 41.37 | 0 59 38.4 | 4 10.1 | 0.378290 | 19 51 |
| 12 | 0 1 53.01 | 41.74 | 0 55 28.3 | 4 12.8 | 0.377822 | 19 50 |
| 13 | 0 1 11.27 | −42.06 | 0 51 15.5 | −4 15.3 | 0.377406 | 19 49 |
| 14 | 0 0 29.21 | 42.34 | +0 47 0.2 | 4 17.6 | 0.377043 | 19 48 |
| 15 | 23 59 46.87 | 42.59 | 0 42 42.6 | 4 19.7 | 0.376733 | 19 47 |
| 16 | 23 59 4.28 | 42.79 | 0 38 22.9 | 4 21.3 | 0.376477 | 19 46 |
| 17 | 23 58 21.49 | 42.95 | 0 34 1.6 | 4 22.6 | 0.376274 | 19 46 |
| 18 | 23 57 38.54 | −43.08 | 0 29 39.0 | −4 23.8 | 0.376124 | 19 45 |
| 19 | 23 56 55.46 | 43.16 | +0 25 15.2 | 4 24.7 | 0.376028 | 19 45 |
| 20 | 23 56 12.30 | 43.19 | 0 20 50.5 | 4 25.3 | 0.375986 | 19 45 |
| ☍ 21 | 23 55 29.11 | 43.19 | 0 16 25.2 | 4 25.6 | 0.375998 | 19 45 |
| 22 | 23 54 45.92 | 43.15 | 0 11 59.6 | 4 25.6 | 0.376064 | 19 45 |
| 23 | 23 54 2.77 | −43.07 | 0 7 34.0 | −4 25.4 | 0.376184 | 19 45 |
| 24 | 23 53 19.70 | 42.94 | +0 3 8.6 | 4 25.0 | 0.376358 | 19 45 |
| 25 | 23 52 36.76 | 42.77 | −0 1 16.4 | 4 24.2 | 0.376585 | 19 46 |
| 26 | 23 51 53.99 | 42.56 | 0 5 40.6 | 4 23.2 | 0.376865 | 19 47 |
| 27 | 23 51 11.43 | 42.30 | 0 10 3.8 | 4 21.9 | 0.377199 | 19 48 |
| 28 | 23 50 29.13 | −42.02 | 0 14 25.7 | −4 20.3 | 0.377586 | 19 49 |
| 29 | 23 49 47.11 | 41.71 | −0 18 46.0 | 4 18.6 | 0.378026 | 19 50 |
| 30 | 23 49 5.40 | 41.34 | 0 23 4.6 | 4 16.6 | 0.378518 | 19 52 |
| Okt. 1 | 23 48 24.06 | 40.95 | 0 27 21.2 | 4 14.4 | 0.379062 | 19 53 |
| 2 | 23 47 43.11 | 40.52 | 0 31 35.6 | 4 11.9 | 0.379657 | 19 55 |
| 3 | 23 47 2.59 | −40.04 | 0 35 47.5 | −4 9.2 | 0.380303 | 19 57 |
| 4 | 23 46 22.55 | 39.53 | −0 39 56.7 | 4 6.3 | 0.381000 | 19 59 |
| 5 | 23 45 43.02 | 38.99 | 0 44 3.0 | 4 3.1 | 0.381747 | 20 1 |
| 6 | 23 45 4.03 | 38.40 | 0 48 6.1 | 3 59.6 | 0.382544 | 20 3 |
| 7 | 23 44 25.63 | 37.79 | 0 52 5.7 | 3 56.0 | 0.383390 | 20 5 |
| 8 | 23 43 47.84 | −37.14 | 0 56 1.7 | −3 52.2 | 0.384284 | 20 8 |
| 9 | 23 43 10.70 | 36.46 | −0 59 53.9 | 3 48.2 | 0.385226 | 20 10 |
| 10 | 23 42 34.24 | | 1 3 42.1 | | 0.386214 | 20 13 |

Opp. in AR. Sept. 21 Gröſse = 12.7

*P. Neugebauer.*

## (190) ISMENE 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | m s |
| Sept. 4 | 0 11 42.23 | −29.76 | +1 7 56.8 | −4 20.1 | 0.485515 | 25 25 |
| 5 | 0 11 12.47 | 30.30 | 1 3 36.7 | 4 24.0 | 0.484589 | 25 21 |
| 6 | 0 10 42.17 | 30.82 | 0 59 12.7 | 4 27.6 | 0.483700 | 25 18 |
| 7 | 0 10 11.35 | 31.32 | 0 54 45.1 | 4 31.0 | 0.482849 | 25 15 |
| 8 | 0 9 40.03 | −31.78 | 0 50 14.1 | −4 34.2 | 0.482036 | 25 13 |
| 9 | 0 9 8.25 | 32.22 | +0 45 39.9 | 4 37.3 | 0.481262 | 25 10 |
| 10 | 0 8 36.03 | 32.64 | 0 41 2.6 | 4 40.2 | 0.480529 | 25 7 |
| 11 | 0 8 3.39 | 33.04 | 0 36 22.4 | 4 43.0 | 0.479836 | 25 5 |
| 12 | 0 7 30.35 | 33.39 | 0 31 39.4 | 4 45.4 | 0.479183 | 25 3 |
| 13 | 0 6 56.96 | −33.72 | 0 26 54.0 | −4 47.6 | 0.478571 | 25 1 |
| 14 | 0 6 23.24 | 34.02 | +0 22 6.4 | 4 49.7 | 0.478001 | 24 59 |
| 15 | 0 5 49.22 | 34.30 | 0 17 16.7 | 4 51.5 | 0.477474 | 24 57 |
| 16 | 0 5 14.92 | 34.53 | 0 12 25.2 | 4 53.1 | 0.476989 | 24 55 |
| 17 | 0 4 40.39 | 34.74 | 0 7 32.1 | 4 54.4 | 0.476546 | 24 54 |
| 18 | 0 4 5.65 | −34.92 | +0 2 37.7 | −4 55.6 | 0.476146 | 24 52 |
| 19 | 0 3 30.73 | 35.06 | −0 2 17.9 | 4 56.6 | 0.475789 | 24 51 |
| 20 | 0 2 55.67 | 35.18 | 0 7 14.5 | 4 57.2 | 0.475475 | 24 50 |
| 21 | 0 2 20.49 | 35.27 | 0 12 11.7 | 4 57.7 | 0.475205 | 24 49 |
| 22 | 0 1 45.22 | 35.32 | 0 17 9.4 | 4 57.9 | 0.474978 | 24 48 |
| ☍ 23 | 0 1 9.90 | −35.34 | 0 22 7.3 | −4 57.9 | 0.474795 | 24 48 |
| 24 | 0 0 34.56 | 35.33 | −0 27 5.2 | 4 57.6 | 0.474656 | 24 47 |
| 25 | 23 59 59.23 | 35.29 | 0 32 2.8 | 4 57.2 | 0.474561 | 24 47 |
| 26 | 23 59 23.94 | 35.23 | 0 37 0.0 | 4 56.5 | 0.474510 | 24 47 |
| 27 | 23 58 48.71 | 35.13 | 0 41 56.5 | 4 55.7 | 0.474502 | 24 47 |
| 28 | 23 58 13.58 | −35.00 | 0 46 52.2 | −4 54.6 | 0.474538 | 24 47 |
| 29 | 23 57 38.58 | 34.83 | −0 51 46.8 | 4 53.3 | 0.474618 | 24 47 |
| 30 | 23 57 3.75 | 34.65 | 0 56 40.1 | 4 51.7 | 0.474741 | 24 47 |
| Okt. 1 | 23 56 29.10 | 34.43 | 1 1 31.8 | 4 50.0 | 0.474907 | 24 48 |
| 2 | 23 55 54.67 | 34.18 | 1 6 21.8 | 4 48.1 | 0.475115 | 24 49 |
| 3 | 23 55 20.49 | −33.91 | 1 11 9.9 | −4 45.9 | 0.475367 | 24 49 |
| 4 | 23 54 46.58 | 33.60 | −1 15 55.8 | 4 43.5 | 0.475662 | 24 50 |
| 5 | 23 54 12.98 | 33.27 | 1 20 39.3 | 4 41.0 | 0.475999 | 24 52 |
| 6 | 23 53 39.71 | 32.90 | 1 25 20.3 | 4 38.2 | 0.476378 | 24 53 |
| 7 | 23 53 6.81 | 32.51 | 1 29 58.5 | 4 35.2 | 0.476798 | 24 54 |
| 8 | 23 52 34.30 | −32.09 | 1 34 33.7 | −4 32.0 | 0.477260 | 24 56 |
| 9 | 23 52 2.21 | 31.64 | −1 39 5.7 | 4 28.6 | 0.477763 | 24 58 |
| 10 | 23 51 30.57 | | 1 43 34.3 | | 0.478306 | 25 0 |

Opp. in AR. Sept. 23 Gröfse = 12.1

*P. Neugebauer.*

## (113) AMALTHEA 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | m s |
| Sept. 13 | 1 8 25.87 | | −0 22 44.7 | | 0.213409 | 13 35 |
| | | −40.21 | | −6 32.9 | | |
| 14 | 1 7 45.66 | | 0 29 17.6 | | 0.212102 | 13 32 |
| | | 41.43 | | 6 37.2 | | |
| 15 | 1 7 4.23 | | 0 35 54.8 | | 0.210856 | 13 30 |
| | | 42.60 | | 6 40.8 | | |
| 16 | 1 6 21.63 | | 0 42 35.6 | | 0.209672 | 13 28 |
| | | 43.73 | | 6 44.1 | | |
| 17 | 1 5 37.90 | | 0 49 19.7 | | 0.208553 | 13 26 |
| | | −44.82 | | −6 47.0 | | |
| 18 | 1 4 53.08 | | −0 56 6.7 | | 0.207498 | 13 24 |
| | | 45.84 | | 6 49.4 | | |
| 19 | 1 4 7.24 | | 1 2 56.1 | | 0.206510 | 13 22 |
| | | 46.83 | | 6 51.4 | | |
| 20 | 1 3 20.41 | | 1 9 47.5 | | 0.205590 | 13 20 |
| | | 47.76 | | 6 53.0 | | |
| 21 | 1 2 32.65 | | 1 16 40.5 | | 0.204739 | 13 19 |
| | | 48.64 | | 6 54.0 | | |
| 22 | 1 1 44.01 | | 1 23 34.5 | | 0.203957 | 13 17 |
| | | −49.46 | | −6 54.6 | | |
| 23 | 1 0 54.55 | | −1 30 29.1 | | 0.203246 | 13 16 |
| | | 50.22 | | 6 54.7 | | |
| 24 | 1 0 4.33 | | 1 37 23.8 | | 0.202607 | 13 15 |
| | | 50.93 | | 6 54.5 | | |
| 25 | 0 59 13.40 | | 1 44 18.3 | | 0.202040 | 13 14 |
| | | 51.57 | | 6 53.7 | | |
| 26 | 0 58 21.83 | | 1 51 12.0 | | 0.201546 | 13 13 |
| | | 52.17 | | 6 52.4 | | |
| 27 | 0 57 29.66 | | 1 58 4.4 | | 0.201126 | 13 12 |
| | | −52.69 | | −6 50.8 | | |
| 28 | 0 56 36.97 | | −2 4 55.2 | | 0.200780 | 13 11 |
| | | 53.17 | | 6 48.7 | | |
| 29 | 0 55 43.80 | | 2 11 43.9 | | 0.200509 | 13 11 |
| | | 53.58 | | 6 46.0 | | |
| 30 | 0 54 50.22 | | 2 18 29.9 | | 0.200313 | 13 11 |
| | | 53.94 | | 6 43.1 | | |
| Okt. 1 | 0 53 56.28 | | 2 25 13.0 | | 0.200192 | 13 10 |
| | | 54.22 | | 6 39.5 | | |
| 2 | 0 53 2.06 | | 2 31 52.5 | | 0.200148 | 13 10 |
| | | −54.45 | | −6 35.7 | | |
| 3 | 0 52 7.61 | | −2 38 28.2 | | 0.200179 | 13 10 |
| | | 54.61 | | 6 31.3 | | |
| 4 | 0 51 13.00 | | 2 44 59.5 | | 0.200287 | 13 10 |
| | | 54.70 | | 6 26.5 | | |
| 5 | 0 50 18.30 | | 2 51 26.0 | | 0.200471 | 13 11 |
| | | 54.74 | | 6 21.2 | | |
| ☍ 6 | 0 49 23.56 | | 2 57 47.2 | | 0.200731 | 13 11 |
| | | 54.70 | | 6 15.4 | | |
| 7 | 0 48 28.86 | | 3 4 2.6 | | 0.201068 | 13 12 |
| | | −54.59 | | −6 9.3 | | |
| 8 | 0 47 34.27 | | −3 10 11.9 | | 0.201481 | 13 13 |
| | | 54.42 | | 6 2.7 | | |
| 9 | 0 46 39.85 | | 3 16 14.6 | | 0.201970 | 13 14 |
| | | 54.17 | | 5 55.7 | | |
| 10 | 0 45 45.68 | | 3 22 10.3 | | 0.202534 | 13 15 |
| | | 53.87 | | 5 48.2 | | |
| 11 | 0 44 51.81 | | 3 27 58.5 | | 0.203173 | 13 16 |
| | | 53.49 | | 5 40.4 | | |
| 12 | 0 43 58.32 | | 3 33 38.9 | | 0.203886 | 13 17 |
| | | −53.04 | | −5 32.1 | | |
| 13 | 0 43 5.28 | | −3 39 11.0 | | 0.204673 | 13 18 |
| | | 52.54 | | 5 23.5 | | |
| 14 | 0 42 12.74 | | 3 44 34.5 | | 0.205532 | 13 20 |
| | | 51.96 | | 5 14.6 | | |
| 15 | 0 41 20.78 | | 3 49 49.1 | | 0.206463 | 13 22 |
| | | 51.33 | | 5 5.3 | | |
| 16 | 0 40 29.45 | | 3 54 54.4 | | 0.207465 | 13 24 |
| | | 50.62 | | 4 55.6 | | |
| 17 | 0 39 38.83 | | 3 59 50.0 | | 0.208537 | 13 26 |
| | | −49.88 | | −4 45.6 | | |
| 18 | 0 38 48.95 | | −4 4 35.6 | | 0.209676 | 13 28 |
| | | 49.05 | | 4 35.5 | | |
| 19 | 0 37 59.90 | | 4 9 11.1 | | 0.210883 | 13 30 |

Opp. in AR. Okt. 6 Gröſse = 11.5

*W. Luther.*

## (35) LEUKOTHEA 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| Sept. 24 | 1h 15m 35.80s | −43.14 | +12° 18′ 54.2″ | −2 23.9 | 0.431152 | 22m 25s |
| 25 | 1 14 52.66 | 43.69 | 12 16 30.3 | 2 28.9 | 0.430419 | 22 23 |
| 26 | 1 14 8.97 | 44.23 | 12 14 1.4 | 2 33.8 | 0.429729 | 22 21 |
| 27 | 1 13 24.74 | 44.72 | 12 11 27.6 | 2 38.6 | 0.429083 | 22 19 |
| 28 | 1 12 40.02 | −45.17 | 12 8 49.0 | −2 43.2 | 0.428481 | 22 17 |
| 29 | 1 11 54.85 | 45.59 | +12 6 5.8 | 2 47.8 | 0.427925 | 22 15 |
| 30 | 1 11 9.26 | 45.99 | 12 3 18.0 | 2 52.1 | 0.427415 | 22 14 |
| Okt. 1 | 1 10 23.27 | 46.32 | 12 0 25.9 | 2 56.3 | 0.426953 | 22 12 |
| 2 | 1 9 36.95 | 46.62 | 11 57 29.6 | 3 0.3 | 0.426539 | 22 11 |
| 3 | 1 8 50.33 | −46.90 | 11 54 29.3 | −3 4.1 | 0.426173 | 22 10 |
| 4 | 1 8 3.43 | 47.14 | +11 51 25.2 | 3 7.8 | 0.425855 | 22 9 |
| 5 | 1 7 16.29 | 47.33 | 11 48 17.4 | 3 11.2 | 0.425585 | 22 8 |
| 6 | 1 6 28.96 | 47.48 | 11 45 6.2 | 3 14.5 | 0.425364 | 22 8 |
| 7 | 1 5 41.48 | 47.60 | 11 41 51.7 | 3 17.5 | 0.425193 | 22 7 |
| 8 | 1 4 53.88 | −47.67 | 11 38 34.2 | −3 20.4 | 0.425072 | 22 7 |
| 9 | 1 4 6.21 | 47.70 | +11 35 13.8 | 3 23.2 | 0.425001 | 22 6 |
| ☍ 10 | 1 3 18.51 | 47.69 | 11 31 50.6 | 3 25.6 | 0.424980 | 22 6 |
| 11 | 1 2 30.82 | 47.63 | 11 28 25.0 | 3 27.8 | 0.425009 | 22 7 |
| 12 | 1 1 43.19 | 47.54 | 11 24 57.2 | 3 29.7 | 0.425088 | 22 7 |
| 13 | 1 0 55.65 | −47.41 | 11 21 27.5 | −3 31.4 | 0.425218 | 22 7 |
| 14 | 1 0 8.24 | 47.24 | +11 17 56.1 | 3 32.9 | 0.425399 | 22 8 |
| 15 | 0 59 21.00 | 47.00 | 11 14 23.2 | 3 34.1 | 0.425630 | 22 8 |
| 16 | 0 58 34.00 | 46.73 | 11 10 49.1 | 3 35.1 | 0.425910 | 22 9 |
| 17 | 0 57 47.27 | 46.42 | 11 7 14.0 | 3 35.9 | 0.426240 | 22 10 |
| 18 | 0 57 0.85 | −46.06 | 11 3 38.1 | −3 36.5 | 0.426620 | 22 11 |
| 19 | 0 56 14.79 | 45.68 | +11 0 1.6 | 3 36.7 | 0.427050 | 22 13 |
| 20 | 0 55 29.11 | 45.25 | 10 56 24.9 | 3 36.7 | 0.427529 | 22 14 |
| 21 | 0 54 43.86 | 44.80 | 10 52 48.2 | 3 36.4 | 0.428056 | 22 16 |
| 22 | 0 53 59.06 | 44.31 | 10 49 11.8 | 3 36.0 | 0.428631 | 22 18 |
| 23 | 0 53 14.75 | −43.79 | 10 45 35.8 | −3 35.3 | 0.429254 | 22 19 |
| 24 | 0 52 30.96 | 43.22 | +10 42 0.5 | 3 34.4 | 0.429924 | 22 21 |
| 25 | 0 51 47.74 | 42.62 | 10 38 26.1 | 3 33.2 | 0.430640 | 22 24 |
| 26 | 0 51 5.12 | 41.98 | 10 34 52.9 | 3 31.8 | 0.431402 | 22 26 |
| 27 | 0 50 23.14 | 41.30 | 10 31 21.1 | 3 30.2 | 0.432210 | 22 29 |
| 28 | 0 49 41.84 | −40.59 | 10 27 50.9 | −3 28.4 | 0.433062 | 22 31 |
| 29 | 0 49 1.25 | 39.85 | +10 24 22.5 | 3 26.3 | 0.433958 | 22 34 |
| 30 | 0 48 21.40 | | 10 20 56.2 | | 0.434897 | 22 37 |

Opp. in AR. Okt. 10 Gröſse = 13.2

*P. Neugebauer.*

## (154) BERTHA 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ″ | | m s |
| Okt. 6 | 2 5 15.36 | −48.19 | +6 35 47.4 | −26.1 | 0.397322 | 20 44 |
| 7 | 2 4 27.17 | 48.85 | 6 35 21.3 | 26.8 | 0.396557 | 20 42 |
| 8 | 2 3 38.32 | 49.48 | 6 34 54.5 | 27.4 | 0.395841 | 20 40 |
| 9 | 2 2 48.84 | 50.08 | 6 34 27.1 | 27.9 | 0.395175 | 20 38 |
| 10 | 2 1 58.76 | −50.63 | 6 33 59.2 | −28.2 | 0.394559 | 20 37 |
| 11 | 2 1 8.13 | 51.14 | +6 33 31.0 | 28.2 | 0.393994 | 20 35 |
| 12 | 2 0 16.99 | 51.61 | 6 33 2.8 | 28.2 | 0.393481 | 20 34 |
| 13 | 1 59 25.38 | 52.03 | 6 32 34.6 | 28.0 | 0.393021 | 20 32 |
| 14 | 1 58 33.35 | 52.41 | 6 32 6.6 | 27.6 | 0.392613 | 20 31 |
| 15 | 1 57 40.94 | −52.74 | 6 31 39.0 | −27.1 | 0.392258 | 20 30 |
| 16 | 1 56 48.20 | 53.02 | +6 31 11.9 | 26.4 | 0.391957 | 20 29 |
| 17 | 1 55 55.18 | 53.25 | 6 30 45.5 | 25.6 | 0.391711 | 20 29 |
| 18 | 1 55 1.93 | 53.43 | 6 30 19.9 | 24.6 | 0.391518 | 20 28 |
| 19 | 1 54 8.50 | 53.58 | 6 29 55.3 | 23.3 | 0.391380 | 20 28 |
| 20 | 1 53 14.92 | −53.69 | 6 29 32.0 | −22.0 | 0.391296 | 20 27 |
| 21 | 1 52 21.23 | 53.74 | +6 29 10.0 | 20.5 | 0.391267 | 20 27 |
| 22 | 1 51 27.49 | 53.75 | 6 28 49.5 | 18.8 | 0.391293 | 20 27 |
| ☍ 23 | 1 50 33.74 | 53.71 | 6 28 30.7 | 17.0 | 0.391373 | 20 28 |
| 24 | 1 49 40.03 | 53.62 | 6 28 13.7 | 15.0 | 0.391508 | 20 28 |
| 25 | 1 48 46.41 | −53.49 | 6 27 58.7 | −12.8 | 0.391698 | 20 29 |
| 26 | 1 47 52.92 | 53.32 | +6 27 45.9 | 10.6 | 0.391942 | 20 29 |
| 27 | 1 46 59.60 | 53.10 | 6 27 35.3 | 8.2 | 0.392240 | 20 30 |
| 28 | 1 46 6.50 | 52.83 | 6 27 27.1 | 5.7 | 0.392592 | 20 31 |
| 29 | 1 45 13.67 | 52.51 | 6 27 21.4 | 3.1 | 0.392997 | 20 32 |
| 30 | 1 44 21.16 | −52.17 | 6 27 18.3 | −0.2 | 0.393455 | 20 33 |
| 31 | 1 43 28.99 | 51.79 | +6 27 18.1 | +2.7 | 0.393966 | 20 35 |
| Nov. 1 | 1 42 37.20 | 51.37 | 6 27 20.8 | 5.8 | 0.394530 | 20 36 |
| 2 | 1 41 45.83 | 50.90 | 6 27 26.6 | 9.0 | 0.395146 | 20 38 |
| 3 | 1 40 54.93 | 50.39 | 6 27 35.6 | 12.3 | 0.395813 | 20 40 |
| 4 | 1 40 4.54 | −49.83 | 6 27 47.9 | +15.8 | 0.396531 | 20 42 |
| 5 | 1 39 14.71 | 49.24 | +6 28 3.7 | 19.4 | 0.397299 | 20 44 |
| 6 | 1 38 25.47 | 48.61 | 6 28 23.1 | 23.1 | 0.398117 | 20 47 |
| 7 | 1 37 36.86 | 47.94 | 6 28 46.2 | 27.0 | 0.398985 | 20 49 |
| 8 | 1 36 48.92 | 47.22 | 6 29 13.2 | 30.9 | 0.399901 | 20 52 |
| 9 | 1 36 1.70 | −46.46 | 6 29 44.1 | +35.0 | 0.400865 | 20 54 |
| 10 | 1 35 15.24 | 45.66 | +6 30 19.1 | 39.3 | 0.401876 | 20 57 |
| 11 | 1 34 29.58 | | 6 30 58.4 | | 0.402933 | 20 59 |

Opp. in AR. Okt. 23 Gröſse = 11.6

*P. Neugebauer.*

## (79) EURYNOME 1909.

| 12^h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | m s |
| Okt. 18 | 2 59 58.61 | −36.52 | +15 31 6.0 | −6 37.5 | 0.010106 | 8 30 |
| 19 | 2 59 22.09 | 38.01 | 15 24 28.5 | 6 45.0 | 0.008434 | 8 28 |
| 20 | 2 58 44.08 | 39.44 | 15 17 43.5 | 6 51.9 | 0.006849 | 8 26 |
| 21 | 2 58 4.64 | 40.80 | 15 10 51.6 | 6 58.4 | 0.005352 | 8 25 |
| 22 | 2 57 23.84 | −42.07 | 15 3 53.2 | −7 4.4 | 0.003945 | 8 23 |
| 23 | 2 56 41.77 | 43.26 | +14 56 48.8 | 7 9.9 | 0.002629 | 8 22 |
| 24 | 2 55 58.51 | 44.36 | 14 49 38.9 | 7 15.0 | 0.001407 | 8 20 |
| 25 | 2 55 14.15 | 45.39 | 14 42 23.9 | 7 19.7 | 0.000281 | 8 19 |
| 26 | 2 54 28.76 | 46.35 | 14 35 4.2 | 7 23.8 | 9.999251 | 8 18 |
| 27 | 2 53 42.41 | −47.21 | 14 27 40.4 | −7 27.4 | 9.998319 | 8 17 |
| 28 | 2 52 55.20 | 47.99 | +14 20 13.0 | 7 30.5 | 9.997488 | 8 16 |
| 29 | 2 52 7.21 | 48.67 | 14 12 42.5 | 7 33.1 | 9.996758 | 8 15 |
| 30 | 2 51 18.54 | 49.28 | 14 5 9.4 | 7 35.1 | 9.996130 | 8 14 |
| 31 | 2 50 29.26 | 49.80 | 13 57 34.3 | 7 36.5 | 9.995605 | 8 14 |
| Nov. 1 | 2 49 39.46 | −50.22 | 13 49 57.8 | −7 37.2 | 9.995184 | 8 13 |
| 2 | 2 48 49.24 | 50.55 | +13 42 20.6 | 7 37.4 | 9.994868 | 8 13 |
| 3 | 2 47 58.69 | 50.78 | 13 34 43.2 | 7 37.0 | 9.994658 | 8 12 |
| 4 | 2 47 7.91 | 50.91 | 13 27 6.2 | 7 36.1 | 9.994554 | 8 12 |
| 5 | 2 46 17.00 | 50.95 | 13 19 30.1 | 7 34.4 | 9.994557 | 8 12 |
| ☍ 6 | 2 45 26.05 | −50.89 | 13 11 55.7 | −7 32.2 | 9.994667 | 8 12 |
| 7 | 2 44 35.16 | 50.72 | +13 4 23.5 | 7 29.2 | 9.994883 | 8 12 |
| 8 | 2 43 44.44 | 50.44 | 12 56 54.3 | 7 25.5 | 9.995206 | 8 13 |
| 9 | 2 42 54.00 | 50.05 | 12 49 28.8 | 7 21.2 | 9.995635 | 8 14 |
| 10 | 2 42 3.95 | 49.55 | 12 42 7.6 | 7 16.2 | 9.996171 | 8 14 |
| 11 | 2 41 14.40 | −48.95 | 12 34 51.4 | −7 10.7 | 9.996813 | 8 15 |
| 12 | 2 40 25.45 | 48.26 | +12 27 40.7 | 7 4.5 | 9.997559 | 8 16 |
| 13 | 2 39 37.19 | 47.47 | 12 20 36.2 | 6 57.8 | 9.998409 | 8 17 |
| 14 | 2 38 49.72 | 46.59 | 12 13 38.4 | 6 50.4 | 9.999362 | 8 18 |
| 15 | 2 38 3.13 | 45.62 | 12 6 48.0 | 6 42.5 | 0.000416 | 8 19 |
| 16 | 2 37 17.51 | −44.57 | 12 0 5.5 | −6 34.0 | 0.001570 | 8 20 |
| 17 | 2 36 32.94 | 43.44 | +11 53 31.5 | 6 24.9 | 0.002821 | 8 22 |
| 18 | 2 35 49.50 | 42.23 | 11 47 6.6 | 6 15.3 | 0.004169 | 8 23 |
| 19 | 2 35 7.27 | 40.93 | 11 40 51.3 | 6 5.2 | 0.005611 | 8 25 |
| 20 | 2 34 26.34 | 39.56 | 11 34 46.1 | 5 54.7 | 0.007145 | 8 27 |
| 21 | 2 33 46.78 | −38.12 | 11 28 51.4 | −5 43.8 | 0.008768 | 8 29 |
| 22 | 2 33 8.66 | 36.62 | +11 23 7.6 | 5 32.4 | 0.010480 | 8 31 |
| 23 | 2 32 32.04 | | 11 17 35.2 | | 0.012276 | 8 33 |

Opp. in AR. Nov. 6  Größe = 9.3

*P. Neugebauer.*

## (199) BYBLIS 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| Okt. 26 | 3h 48m 49s.48 | −40.91 | +6° 18′ 7″.0 | −1′ 43″.6 | 0.432141 | 22m 28s |
| 27 | 3 48 8.57 | 41.67 | 6 16 23.4 | 1 41.3 | 0.431400 | 22 26 |
| 28 | 3 47 26.90 | 42.40 | 6 14 42.1 | 1 38.8 | 0.430701 | 22 24 |
| 29 | 3 46 44.50 | 43.09 | 6 13 3.3 | 1 36.2 | 0.430045 | 22 22 |
| 30 | 3 46 1.41 | −43.75 | 6 11 27.1 | −1 33.5 | 0.429433 | 22 20 |
| 31 | 3 45 17.66 | 44.38 | +6 9 53.6 | 1 30.7 | 0.428865 | 22 18 |
| Nov. 1 | 3 44 33.28 | 44.98 | 6 8 22.9 | 1 27.8 | 0.428341 | 22 17 |
| 2 | 3 43 48.30 | 45.55 | 6 6 55.1 | 1 24.6 | 0.427863 | 22 15 |
| 3 | 3 43 2.75 | 46.06 | 6 5 30.5 | 1 21.4 | 0.427431 | 22 14 |
| 4 | 3 42 16.69 | −46.55 | 6 4 9.1 | −1 18.1 | 0.427046 | 22 13 |
| 5 | 3 41 30.14 | 47.00 | +6 2 51.0 | 1 14.6 | 0.426708 | 22 12 |
| 6 | 3 40 43.14 | 47.41 | 6 1 36.4 | 1 10.9 | 0.426419 | 22 11 |
| 7 | 3 39 55.73 | 47.78 | 6 0 25.5 | 1 7.1 | 0.426178 | 22 10 |
| 8 | 3 39 7.95 | 48.10 | 5 59 18.4 | 1 3.2 | 0.425985 | 22 9 |
| 9 | 3 38 19.85 | −48.40 | 5 58 15.2 | −0 59.1 | 0.425841 | 22 9 |
| 10 | 3 37 31.45 | 48.64 | +5 57 16.1 | 0 54.8 | 0.425747 | 22 9 |
| 11 | 3 36 42.81 | 48.83 | 5 56 21.3 | 0 50.5 | 0.425703 | 22 8 |
| 12 | 3 35 53.98 | 48.99 | 5 55 30.8 | 0 46.1 | 0.425707 | 22 9 |
| 13 | 3 35 4.99 | 49.10 | 5 54 44.7 | 0 41.5 | 0.425762 | 22 9 |
| 14 | 3 34 15.89 | −49.17 | 5 54 3.2 | −0 36.8 | 0.425867 | 22 9 |
| 15 | 3 33 26.72 | 49.20 | +5 53 26.4 | 0 31.9 | 0.426022 | 22 9 |
| 16 | 3 32 37.52 | 49.18 | 5 52 54.5 | 0 27.0 | 0.426228 | 22 10 |
| ☍ 17 | 3 31 48.34 | 49.11 | 5 52 27.5 | 0 22.0 | 0.426483 | 22 11 |
| 18 | 3 30 59.23 | 49.00 | 5 52 5.5 | 0 16.9 | 0.426788 | 22 12 |
| 19 | 3 30 10.23 | −48.86 | 5 51 48.6 | −0 11.7 | 0.427143 | 22 13 |
| 20 | 3 29 21.37 | 48.67 | +5 51 36.9 | 0 6.4 | 0.427547 | 22 14 |
| 21 | 3 28 32.70 | 48.44 | 5 51 30.5 | −0 1.0 | 0.428001 | 22 16 |
| 22 | 3 27 44.26 | 48.18 | 5 51 29.5 | +0 4.3 | 0.428504 | 22 17 |
| 23 | 3 26 56.08 | 47.86 | 5 51 33.8 | 0 9.8 | 0.429054 | 22 19 |
| 24 | 3 26 8.22 | −47.52 | 5 51 43.6 | +0 15.4 | 0.429652 | 22 20 |
| 25 | 3 25 20.70 | 47.12 | +5 51 59.0 | 0 21.0 | 0.430298 | 22 22 |
| 26 | 3 24 33.58 | 46.68 | 5 52 20.0 | 0 26.6 | 0.430990 | 22 24 |
| 27 | 3 23 46.90 | 46.22 | 5 52 46.6 | 0 32.3 | 0.431728 | 22 27 |
| 28 | 3 23 0.68 | 45.74 | 5 53 18.9 | 0 38.0 | 0.432512 | 22 30 |
| 29 | 3 22 14.94 | −45.23 | 5 53 56.9 | +0 43.7 | 0.433341 | 22 32 |
| 30 | 3 21 29.71 | 44.67 | +5 54 40.6 | 0 49.5 | 0.434215 | 22 35 |
| Dez. 1 | 3 20 45.04 | | 5 55 30.1 | | 0.435133 | 22 38 |

Opp. in AR. Nov. 17 Gröfse = 13.1

*P. Neugebauer.*

## (68) LETO 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| Nov. 7 | 4h 13m 3s.80 | −56s.35 | +24° 6′ 36″.4 | +1′ 20″.8 | 0.200127 | 13m 10s |
| 8 | 4 12 7.45 | 57.45 | 24 7 57.2 | 1 15.7 | 0.199465 | 13 9 |
| 9 | 4 11 10.00 | 58.47 | 24 9 12.9 | 1 10.7 | 0.198875 | 13 8 |
| 10 | 4 10 11.53 | 59.40 | 24 10 23.6 | 1 5.6 | 0.198357 | 13 7 |
| 11 | 4 9 12.13 | −60.24 | 24 11 29.2 | +1 0.5 | 0.197913 | 13 6 |
| 12 | 4 8 11.89 | 61.00 | +24 12 29.7 | 0 55.5 | 0.197543 | 13 6 |
| 13 | 4 7 10.89 | 61.66 | 24 13 25.2 | 0 50.5 | 0.197249 | 13 5 |
| 14 | 4 6 9.23 | 62.24 | 24 14 15.7 | 0 45.5 | 0.197031 | 13 5 |
| 15 | 4 5 6.99 | 62.75 | 24 15 1.2 | 0 40.5 | 0.196889 | 13 4 |
| 16 | 4 4 4.24 | −63.17 | 24 15 41.7 | +0 35.7 | 0.196823 | 13 4 |
| 17 | 4 3 1.07 | 63.52 | +24 16 17.4 | 0 30.9 | 0.196835 | 13 4 |
| 18 | 4 1 57.55 | 63.78 | 24 16 48.3 | 0 26.1 | 0.196925 | 13 5 |
| 19 | 4 0 53.77 | 63.96 | 24 17 14.4 | 0 21.5 | 0.197093 | 13 5 |
| 20 | 3 59 49.81 | 64.04 | 24 17 35.9 | 0 16.9 | 0.197340 | 13 5 |
| 21 | 3 58 45.77 | −64.05 | 24 17 52.8 | +0 12.4 | 0.197665 | 13 6 |
| 22 | 3 57 41.72 | 63.98 | +24 18 5.2 | 0 8.1 | 0.198068 | 13 6 |
| ☍ 23 | 3 56 37.74 | 63.84 | 24 18 13.3 | +0 3.9 | 0.198549 | 13 7 |
| 24 | 3 55 33.90 | 63.61 | 24 18 17.2 | −0 0.1 | 0.199107 | 13 8 |
| 25 | 3 54 30.29 | 63.29 | 24 18 17.1 | 0 4.1 | 0.199743 | 13 10 |
| 26 | 3 53 27.00 | −62.92 | 24 18 13.0 | −0 7.9 | 0.200456 | 13 11 |
| 27 | 3 52 24.08 | 62.46 | +24 18 5.1 | 0 11.4 | 0.201245 | 13 12 |
| 28 | 3 51 21.62 | 61.92 | 24 17 53.7 | 0 14.8 | 0.202110 | 13 14 |
| 29 | 3 50 19.70 | 61.30 | 24 17 38.9 | 0 18.1 | 0.203050 | 13 16 |
| 30 | 3 49 18.40 | 60.62 | 24 17 20.8 | 0 21.0 | 0.204066 | 13 18 |
| Dez. 1 | 3 48 17.78 | −59.87 | 24 16 59.8 | −0 23.8 | 0.205156 | 13 20 |
| 2 | 3 47 17.91 | 59.05 | +24 16 36.0 | 0 26.3 | 0.206319 | 13 22 |
| 3 | 3 46 18.86 | 58.15 | 24 16 9.7 | 0 28.6 | 0.207553 | 13 24 |
| 4 | 3 45 20.71 | 57.19 | 24 15 41.1 | 0 30.7 | 0.208859 | 13 26 |
| 5 | 3 44 23.52 | 56.15 | 24 15 10.4 | 0 32.5 | 0.210235 | 13 29 |
| 6 | 3 43 27.37 | −55.05 | 24 14 37.9 | −0 34.0 | 0.211680 | 13 32 |
| 7 | 3 42 32.32 | 53.87 | +24 14 3.9 | 0 35.4 | 0.213193 | 13 34 |
| 8 | 3 41 38.45 | 52.63 | 24 13 28.5 | 0 36.5 | 0.214772 | 13 37 |
| 9 | 3 40 45.82 | 51.32 | 24 12 52.0 | 0 37.2 | 0.216416 | 13 40 |
| 10 | 3 39 54.50 | 49.95 | 24 12 14.8 | 0 37.8 | 0.218124 | 13 44 |
| 11 | 3 39 4.55 | −48.52 | 24 11 37.0 | −0 38.1 | 0.219895 | 13 47 |
| 12 | 3 38 16.03 | 47.02 | +24 10 58.9 | 0 38.1 | 0.221727 | 13 51 |
| 13 | 3 37 29.01 | | 24 10 20.8 | | 0.223618 | 13 54 |

Opp. in AR. Nov. 23 Gröfse = 10.0

*P. Neugebauer.*

## (84) KLIO 1909.

| 12ʰ Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ′ ″ | ′ ″ | | m s |
| Nov. 11 | 4 39 4.46 | −69.25 | +38 42 16.7 | +0 19.6 | 0.093331 | 10 18 |
| 12 | 4 37 55.21 | 70.85 | 38 42 36.3 | +0 2.5 | 0.092692 | 10 17 |
| 13 | 4 36 44.36 | 72.33 | 38 42 38.8 | −0 14.8 | 0.092130 | 10 16 |
| 14 | 4 35 32.03 | 73.69 | 38 42 24.0 | 0 32.2 | 0.091647 | 10 16 |
| 15 | 4 34 18.34 | −74.92 | 38 41 51.8 | −0 49.7 | 0.091245 | 10 15 |
| 16 | 4 33 3.42 | 76.03 | +38 41 2.1 | 1 7.4 | 0.090925 | 10 15 |
| 17 | 4 31 47.39 | 77.01 | 38 39 54.7 | 1 25.0 | 0.090688 | 10 14 |
| 18 | 4 30 30.38 | 77.87 | 38 38 29.7 | 1 42.6 | 0.090537 | 10 14 |
| 19 | 4 29 12.51 | 78.60 | 38 36 47.1 | 2 0.3 | 0.090472 | 10 14 |
| 20 | 4 27 53.91 | −79.20 | 38 34 46.8 | −2 17.8 | 0.090493 | 10 14 |
| 21 | 4 26 34.71 | 79.66 | +38 32 29.0 | 2 35.2 | 0.090601 | 10 14 |
| 22 | 4 25 15.05 | 80.00 | 38 29 53.8 | 2 52.3 | 0.090797 | 10 14 |
| 23 | 4 23 55.05 | 80.20 | 38 27 1.5 | 3 9.4 | 0.091081 | 10 15 |
| 24 | 4 22 34.85 | 80.27 | 38 23 52.1 | 3 26.4 | 0.091453 | 10 15 |
| 25 | 4 21 14.58 | −80.22 | 38 20 25.7 | −3 43.0 | 0.091913 | 10 16 |
| 26 | 4 19 54.36 | 80.04 | +38 16 42.7 | 3 59.2 | 0.092462 | 10 17 |
| 27 | 4 18 34.32 | 79.74 | 38 12 43.5 | 4 15.2 | 0.093100 | 10 18 |
| 28 | 4 17 14.58 | 79.31 | 38 8 28.3 | 4 30.9 | 0.093826 | 10 19 |
| 29 | 4 15 55.27 | 78.76 | 38 3 57.4 | 4 46.1 | 0.094640 | 10 20 |
| 30 | 4 14 36.51 | −78.09 | 37 59 11.3 | −5 1.0 | 0.095543 | 10 21 |
| Dez. 1 | 4 13 18.42 | 77.31 | +37 54 10.3 | 5 15.4 | 0.096535 | 10 23 |
| 2 | 4 12 1.11 | 76.40 | 37 48 54.9 | 5 29.2 | 0.097614 | 10 24 |
| 3 | 4 10 44.71 | 75.36 | 37 43 25.7 | 5 42.6 | 0.098780 | 10 26 |
| 4 | 4 9 29.35 | 74.22 | 37 37 43.1 | 5 55.5 | 0.100032 | 10 28 |
| 5 | 4 8 15.13 | −72.99 | 37 31 47.6 | −6 7.8 | 0.101370 | 10 30 |
| 6 | 4 7 2.14 | 71.63 | +37 25 39.8 | 6 19.4 | 0.102792 | 10 32 |
| 7 | 4 5 50.51 | 70.17 | 37 19 20.4 | 6 30.3 | 0.104298 | 10 34 |
| 8 | 4 4 40.34 | 68.62 | 37 12 50.1 | 6 40.7 | 0.105888 | 10 36 |
| 9 | 4 3 31.72 | 66.98 | 37 6 9.4 | 6 50.4 | 0.107558 | 10 39 |
| 10 | 4 2 24.74 | −65.24 | 36 59 19.0 | −6 59.3 | 0.109308 | 10 41 |
| 11 | 4 1 19.50 | 63.43 | +36 52 19.7 | 7 7.5 | 0.111136 | 10 44 |
| 12 | 4 0 16.07 | 61.53 | 36 45 12.2 | 7 14.8 | 0.113042 | 10 47 |
| 13 | 3 59 14.54 | 59.57 | 36 37 57.4 | 7 21.3 | 0.115023 | 10 50 |
| 14 | 3 58 14.97 | 57.54 | 36 30 36.1 | 7 27.1 | 0.117077 | 10 53 |
| 15 | 3 57 17.43 | −55.45 | 36 23 9.0 | −7 32.1 | 0.119203 | 10 56 |
| 16 | 3 56 21.98 | 53.32 | +36 15 36.9 | 7 36.1 | 0.121399 | 10 59 |
| 17 | 3 55 28.66 | | 36 8 0.8 | | 0.123663 | 11 3 |

Opp. in AR. Nov. 28 Gröſse = 11.0

*P. Neugebauer.*

## (65) CYBELE 1909.

| 12h Mittl. Zeit | AR. | Diff. | Dekl. | Diff. | Log. Δ | Aberr.-Zt. |
|---|---|---|---|---|---|---|
| | h m s | s | ° ' " | ' " | | m s |
| Nov. 19 | 5 3 41.65 | −41.32 | +18 9 47.2 | −1 24.0 | 0.452744 | 23 34 |
| 20 | 5 3 0.33 | 41.94 | 18 8 23.2 | 1 24.0 | 0.452025 | 23 31 |
| 21 | 5 2 18.39 | 42.51 | 18 6 59.2 | 1 23.8 | 0.451350 | 23 29 |
| 22 | 5 1 35.88 | 43.05 | 18 5 35.4 | 1 23.5 | 0.450719 | 23 27 |
| 23 | 5 0 52.83 | −43.54 | 18 4 11.9 | −1 23.2 | 0.450132 | 23 25 |
| 24 | 5 0 9.29 | 44.00 | +18 2 48.7 | 1 22.9 | 0.449590 | 23 24 |
| 25 | 4 59 25.29 | 44.43 | 18 1 25.8 | 1 22.4 | 0.449094 | 23 22 |
| 26 | 4 58 40.86 | 44.81 | 18 0 3.4 | 1 22.0 | 0.448643 | 23 21 |
| 27 | 4 57 56.05 | 45.16 | 17 58 41.4 | 1 21.4 | 0.448238 | 23 19 |
| 28 | 4 57 10.89 | −45.46 | 17 57 20.0 | −1 20.8 | 0.447880 | 23 18 |
| 29 | 4 56 25.43 | 45.74 | +17 55 59.2 | 1 20.1 | 0.447568 | 23 17 |
| 30 | 4 55 39.69 | 45.98 | 17 54 39.1 | 1 19.3 | 0.447304 | 23 16 |
| Dez. 1 | 4 54 53.71 | 46.17 | 17 53 19.8 | 1 18.5 | 0.447089 | 23 16 |
| 2 | 4 54 7.54 | 46.32 | 17 52 1.3 | 1 17.6 | 0.446921 | 23 15 |
| 3 | 4 53 21.22 | −46.44 | 17 50 43.7 | −1 16.7 | 0.446801 | 23 15 |
| 4 | 4 52 34.78 | 46.50 | +17 49 27.0 | 1 15.7 | 0.446729 | 23 14 |
| 5 | 4 51 48.28 | 46.52 | 17 48 11.3 | 1 14.6 | 0.446706 | 23 14 |
| ☍ 6 | 4 51 1.76 | 46.50 | 17 46 56.7 | 1 13.4 | 0.446731 | 23 15 |
| 7 | 4 50 15.26 | 46.44 | 17 45 43.3 | 1 12.2 | 0.446805 | 23 15 |
| 8 | 4 49 28.82 | −46.33 | 17 44 31.1 | −1 10.9 | 0.446928 | 23 16 |
| 9 | 4 48 42.49 | 46.18 | +17 43 20.2 | 1 9.6 | 0.447100 | 23 16 |
| 10 | 4 47 56.31 | 45.99 | 17 42 10.6 | 1 8.1 | 0.447320 | 23 16 |
| 11 | 4 47 10.32 | 45.75 | 17 41 2.5 | 1 6.6 | 0.447587 | 23 17 |
| 12 | 4 46 24.57 | 45.48 | 17 39 55.9 | 1 5.1 | 0.447903 | 23 18 |
| 13 | 4 45 39.09 | −45.16 | 17 38 50.8 | −1 3.4 | 0.448267 | 23 19 |
| 14 | 4 44 53.93 | 44.81 | +17 37 47.4 | 1 1.6 | 0.448679 | 23 21 |
| 15 | 4 44 9.12 | 44.40 | 17 36 45.8 | 0 59.8 | 0.449137 | 23 22 |
| 16 | 4 43 24.72 | 43.96 | 17 35 46.0 | 0 57.9 | 0.449643 | 23 24 |
| 17 | 4 42 40.76 | 43.49 | 17 34 48.1 | 0 55.9 | 0.450194 | 23 26 |
| 18 | 4 41 57.27 | −42.98 | 17 33 52.2 | −0 53.9 | 0.450791 | 23 27 |
| 19 | 4 41 14.29 | 42.41 | +17 32 58.3 | 0 51.8 | 0.451433 | 23 29 |
| 20 | 4 40 31.88 | 41.82 | 17 32 6.5 | 0 49.7 | 0.452120 | 23 32 |
| 21 | 4 39 50.06 | 41.20 | 17 31 16.8 | 0 47.4 | 0.452851 | 23 34 |
| 22 | 4 39 8.86 | 40.55 | 17 30 29.4 | 0 45.1 | 0.453625 | 23 37 |
| 23 | 4 38 28.31 | −39.86 | 17 29 44.3 | −0 42.7 | 0.454441 | 23 39 |
| 24 | 4 37 48.45 | 39.14 | +17 29 1.6 | 0 40.3 | 0.455299 | 23 42 |
| 25 | 4 37 9.31 | | 17 28 21.3 | | 0.456199 | 23 45 |

Opp. in AR. Dez. 6  Gröfse = 11.5

*P. Neugebauer.*

# NACHWEISUNGEN ÜBER DIE KLEINEN PLANETEN (1)–(659).

Zur genaueren Bezeichnung derjenigen Stellen, an welchen die betreffenden Mitteilungen über die kleinen Planeten sich befinden, sind bei sämtlichen hier benutzten Zeitschriften, nämlich bei den Astronomischen Nachrichten (A. N.), dem Astronomical Journal (A. J.), dem Bulletin Astronomique (B. A.), den Monthly Notices (M. N.) die Band- und Seitenzahlen angegeben.

Bei wiederholt veröffentlichten Beobachtungen ist nur die letzte Publikation angeführt.

## A. Beobachtungen.

Ein Sternchen (*) bedeutet genäherte Angaben der betreffenden Planetenörter.

| Nr. und Name | Beobachtungsort | Datum der Beobachtung | Publikation |
|---|---|---|---|
| 1 Ceres . . . | Washington . | 1906 Dez. 3 . . . . . . . | A. J. 25, 191 |
| | Arcetri . . . | » Dez. 30, 31, 1907 Jan. 5, 6 | A. N. 178, 361 |
| | Marseille . . | 1907 Jan. 8, 9, 10, 12, 14, 15, Jan. 17, 26, 28, 30, 31 . | B. A. 24, 477 |
| | Düsseldorf . . | » März 4 . . . . . . . | A. N. 177, 129 |
| | Nizza . . . | » Febr. 6, 14, 15 . . . | B. A. 25, 101 |
| | Uccle . . . | » Jan. 22, 26, 31 . . . | A. N. 178, 117 |
| 2 Pallas . . . | Marseille . . | 1906 Nov. 13, 14, 15, 19, 20, 21, 22, Nov. 23, 24, 26, 28, 29, 30, Dez. 6, 7, 10, 11, 17 . . | B. A. 24, 477 |
| | Washington . | » Okt. 13, 29 . . . . . | A. J. 25, 191 |
| | Nizza . . . | » Nov. 13, 20, Dez. 10 . . | B. A. 25, 101 |
| | Arcetri . . . | » Okt. 24, 25, Nov. 12, 13 . | A. N. 178, 361 |
| | Heidelberg . . | 1908 März 3*, 22* . . . . | » » 177, 239, 287 |
| | Marseille . . | » Febr. 24, 25, 26, 27, März 2, März 3, 5, 7, 8, 11 . . | B. A. 25, 218 |
| 3 Juno . . . | Uccle . . . | 1906 April 4 . . . . . . | A. N. 178, 117 |
| | Arcetri . . . | 1907 April 22, 23, 24, Mai 4, 5, 7, Mai 8, 9, 10, 12, 14, 21, 25, 28, Juni 8, 9, 10, 11 . . . | » » 178, 289 |
| | Utrecht . . . | » Mai 11, 21, 28, 29, Juli 2 | » » 177, 275 |
| | Heidelberg . . | 1908 Juni 28* . . . . . | » » 178, 223 |
| 4 Vesta . . . | Arcetri . . . | 1906 Sept. 21, 22, 23, 24, Okt. 24, Okt. 25, Nov. 12, 13 . . | » » 178, 361 |
| | Marseille . . | » Nov. 13, 14, 15, 19, 20, 21, 22, Nov. 23, 24, 26, 28, 29, 30, Dez. 4, 6, 7, 10, 11, 17 . | B. A. 24, 478 |
| | Nizza . . . | » Okt. 9, 17, 22, 24, Nov. 5, Nov. 28 . . . . . . | » » 25, 101 |

| Nr. und Name | Beobachtungsort | | Datum der Beobachtung | Publikation |
|---|---|---|---|---|
| 4 Vesta . . . | Uccle . . . | 1906 | Sept. 7, 12, 21, 24, 26, 28, | |
| | | | Sept. 29, Okt. 4, 9, 10, 11, | |
| | | | Nov. 3, 10, 20 . . . . | A. N. 178, 119 |
| | Marseille . . | 1908 | Jan. 16, 18, 20, 21, 23, 24, | |
| | | | Jan. 25, 29 . . . . . | B. A. 25, 182 |
| | Marseille . . | » | Febr. 4, 8 . . . . . . | » » 25, 218 |
| 6 Hebe . . . | Düsseldorf . . | 1907 | Mai 7, 9, 11, 14 . . . | A. N. 177, 129 |
| 7 Iris . . . | Greenwich . . | 1906 | Juli 28, 31 . . . . . . | M. N. 68, 36 |
| | Washington . | » | Juli 26, Aug. 15 . . . | A. J. 25, 191 |
| 8 Flora . . . | Marseille . . | 1907 | Febr. 1, 2, 4, 5, 6, 8, 9, | |
| | | | Febr. 11, 14, 15, 16, 18, 19 | B. A. 24, 471 |
| | Algier . . . | » | Jan. 9, 10, 11, 15, 16, 18, | |
| | | | Jan. 19, 21, 23 . . . | A. N. 177, 51 |
| | Washington . | » | Jan. 4, 10 . . . . . . | A. J. 25, 192 |
| | Utrecht . . . | » | Jan. 11, 13, 17, 19, 22, 23, | |
| | | | Jan. 26, 30, Febr. 6, 7 . | A. N. 177, 273 |
| | Arcetri . . . | » | Jan. 18, 19, 20, 27, 28 . | » » 178, 289 |
| | Mailand . . | » | Jan. 6, 8, 9, 10, 12, 13, | |
| | | | Jan. 14, 18, 19 . . . | » » 178, 295 |
| | Padua . . . | 1908 | Juni 2, 9 . . . . . | » » 178, 267 |
| | Düsseldorf . . | » | Ephemeridenkorrektion . . | » » 178, 55 |
| 11 Parthenope . | Zô-sè . . . | 1905 | Nov. 20, 21, 22 . . . | » » 177, 23 |
| | Algier . . . | 1907 | März 23, 28, 29, April 5, 6, 8 | » » 177, 55 |
| | Düsseldorf . . | » | Febr. 16, 17, März 7 . . | » » 177, 129 |
| | Kasan . . . | » | März 6, 7, 8, 11, 18 . . | » » 177, 199 |
| | Utrecht . . . | » | März 3, 4, 5, 6, 11, 22, | |
| | | | März 24, 31 . . . . | » » 177, 273 |
| | Jena . . . | » | Febr. 11, 12 . . . . . | » » 178, 105 |
| | Philadelphia . | » | März 11, 13, 15, 16, 22 | A. J. 26, 16 |
| | Mailand . . | » | März 10, 12, 13, 15, 16, 19 | A. N. 178, 295 |
| | Arcetri . . . | » | März 9, 10, 12, 13, 18, | |
| | | | März 22, 23 . . . . | » » 178, 305 |
| 12 Victoria . . | Kasan . . . | » | Sept. 3, 4, 5, 8 . . . . | » » 177, 201 |
| 14 Irene . . . | Heidelberg . . | » | Nov. 30* . . . . . | » » 176, 330 |
| | Washington . | » | Nov. 4 . . . . . . . | A. J. 26, 21 |
| 16 Psyche . . | Washington . | » | Febr. 25 . . . . . . | » » 25, 192 |
| | Taunton . . | 1908 | Mai 1* . . . . . . | A. N. 178, 199 |
| 17 Thetis . . . | Genf . . . | 1807 | Juli 4, 10, 11, 12 . . | » » 176, 391 |
| | Düsseldorf . . | » | Juni 8 . . . . . . . | » » 177, 129 |
| | Algier . . . | » | Juni 15, 18, 19, 20, 22, 24, 26, | |
| | | | Juli 5, 6 . . . . . . | » » 177, 151 |
| | Nizza . . . | » | Juni 19, 28, Juli 4, 9 . | B. A. 25, 101 |
| | Utrecht . . | » | Juni 17, 21, 27, 30, Juli 2, 5 | A. N. 177, 275 |
| | Marseille . . | » | Juli 2, 4, 5, 9, 11, 12 . | B. A. 25, 181 |
| | Jena . . . | » | Juni 8, 9, 12 . . . . | A. N. 178, 105 |

| Nr. und Name | Beobachtungsort | Datum der Beobachtung | Publikation |
|---|---|---|---|
| 18 Melpomene . | Kasan . . . | 1907 April 19, 21, 22, 23 . . | A. N. 177, 199 |
| 19 Fortuna . . | Greenwich . . | 1906 Dez. 14 . . . . . . . | M. N. 68. 38 |
| | Zô-sè . . . | » Nov. 28, Dez. 11, 13, 26, 27, Dez. 28, 1907 Jan. 6, 7 . | A. N. 177, 25 |
| | Algier . . . | » Dez. 3, 17, 20, 22, 26, 27, 1907 Jan. 2 . . . . . | » » 177, 49 |
| | Jena . . . | 1908 Ephemeridenkorrektion . . | » » 177, 319 |
| | Heidelberg . . | » April 30* . . . . . . | » » 177, 383 |
| | Padua . . . | » April 1, 2 . . . . . . | » » 178, 265 |
| | Washington . | » April 6, 20 . . . . . | A. J. 26. 25 |
| | Nizza . . . | » April 22, Mai 1 . . . . | B. A. 25, 360 |
| 20 Massalia . . | Wien . . . | 1907 Juni 18, Juli 1 . . . . | A. N. 179, 19 |
| 21 Lutetia . . | Philadelphia . | » Jan. 30 . . . . . . . | A. J. 26, 15 |
| | Wien . . . | » März 7 . . . . . . . | A. N. 179, 19 |
| | Taunton . . | 1908 April 26*, Mai 1* . . . | » » 178, 69 |
| 24 Themis . . | Zô-sè . . . | 1906 Okt. 23, 27, Nov. 3, 6 . | » » 177, 25 |
| | Düsseldorf . . | 1907 Dez. 31 . . . . . . . | » » 177, 129 |
| | Heidelberg . . | 1908 Jan. 3*, 22* . . . . . | » » 177, 48, 93 |
| 26 Proserpina . | Greenwich . . | 1906 Aug. 29 . . . . . . . | M. N. 68, 37 |
| | Jena . . . | 1907 Nov. 30, Dez. 1, 4 . . | A. N. 178, 105 |
| | Düsseldorf . . | » Nov. 30 . . . . . . . | » » 177, 129 |
| | Utrecht . . | » Nov. 29, 30, Dez. 6 . . | » » 177, 277 |
| 27 Euterpe . . | Heidelberg . . | » Dez. 1* . . . . . . . | » » 176, 330 |
| 28 Bellona . . | Greenwich . . | 1906 Juni 22, 25, 26 . . . . | M. N. 68, 36 |
| | Zô-sè . . . | » Juni 29, Juli 17, 20, 21 | A. N. 177, 25 |
| | Washington . | » Juni 28, 29, Juli 12 . . | A. J. 25, 191 |
| | Düsseldorf . . | 1907 Sept. 7, 10, 11 . . . | A. N. 177, 129 |
| | Kasan . . . | » Aug. 27, Sept. 8. 9, 14 . | » » 177, 201 |
| 29 Amphitrite . | Marseille . . | » März 29, 30, April 5, 6, April 8, 10 . . . . . | B. A. 24, 471 |
| | Düsseldorf . . | » Febr. 17, März 3, 4, 22, April 1, 3, 20 . . . . | A. N. 177, 129 |
| | Strafsburg . . | » März 21, 24, 25, 26, 28, 29, April 2, 19, 20 . . . | » » 177. 221 |
| 31 Euphrosyne . | Marseille . . | » Mai 3, 4, 8, 9, 10, 11, Mai 13, 15, 17, Juni 4, Juni 6, 8, 14, 17 . . . | B. A. 24, 413 |
| | Rom . . . | » Mai 19, 21, Juni 1, 3, 10, Juni 28, 30 . . . . | A. N. 176. 351 |
| | Algier . . . | » Mai 6, 7, 11, 15, 16, 17 | » » 177, 57 |
| | Washington . | » April 24, 25, 30, Mai 4, 9, Mai 12, 17, 21, 27, Juni 5, 6 | A. J. 25, 187 |
| | Düsseldorf . . | » Mai 12 . . . . . . . | A. N. 177, 129 |
| | Nizza . . . | » Mai 10 . . . . . . . | B. A. 25, 67 |
| | Wien . . . | » Mai 7 . . . . . . . | A. N. 178, 121 |

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|---|---|---|---|
| 31 Euphrosyne . | Arcetri . . . | 1907 Juni 4, 5, 6, 8, 9, 10, 11, 12 | A. N. 178, 309 |
| 34 Circe . . . | Kopenhagen . | 1908 Ephemeridenkorrektion . . | » » 177, 383 |
| | Taunton . . | » Mai 1* . . . . . . . | » » 178, 69 |
| 35 Leukothea . | Washington . | 1907 April 3* . . . . . . | » » 176, 121 |
| | Algier . . . | » April 9, 11, 12, 23, 24, 25, | |
| | | April 29, 30, Mai 1 . . | » » 177, 55 |
| | Düsseldorf . . | » April 4, 10, 18 . . . | » » 177, 129 |
| | Jena . . . | » April 18, 20 . . . . | » » 178, 105 |
| | Arcetri . . . | » April 23 . . . . . . | » » 178, 291 |
| 37 Fides . . . | Düsseldorf . . | » Nov. 24, 30, Dez. 6 . . | » » 177, 131 |
| | Algier . . . | » Dez. 9, 11, 14, 17, 18 . | » » 177, 153 |
| | Kasan . . . | » Nov. 25, 26 . . . . . | » » 177, 203 |
| | Utrecht . . . | » Nov. 24, 25, 27, 29, Dez. 1, | |
| | | Dez. 3, 6 . . . . . | » » 177, 277 |
| | Padua . . . | » Dez. 11 . . . . . . | » » 177, 363 |
| | Jena . . . | » Nov. 28, 30, Dez. 1 . . | » » 178, 105 |
| | Arcetri . . . | » Dez. 15, 16, 17 . . | » » 178, 291 |
| | Heidelberg . . | 1908 Jan. 3* . . . . . . | » » 177, 47 |
| 39 Laetitia . . | Heidelberg . . | » Juni 24*, 29* . . . . | » » 178, 199, 223 |
| 40 Harmonia . | Marseille . . | 1907 März 14, 16, 18, 19, 21, 22, | |
| | | März 23, 26, 28, 29, 30, | |
| | | April 5, 6, 8, 10 . . . | B. A. 24, 471 |
| | Philadelphia . | » März 11, 16 . . . . . | A. J. 26, 16 |
| 41 Daphne . . | Rom . . . | » Mai 26 . . . . . . | A. N. 176, 353 |
| | Utrecht . . . | » Mai 21, 24, 28 . . . . | » » 177, 275 |
| | Jena . . . | » Mai 18 . . . . . . | » » 178, 105 |
| | Philadelphia . | » Juni 8 . . . . . . | A. J. 26, 16 |
| | Arcetri . . . | » Mai 25, 28, Juni 2, 4, 5, 8, | |
| | | Juni 9, 10, 11, 12, 17, 18, | |
| | | Juni 19, 20, 21, 22 . . | A. N. 178, 307 |
| 42 Isis . . . | Greenwich . . | 1906 Aug. 28 . . . . . . | M. N. 68, 37 |
| 43 Ariadne . . | Heidelberg . . | 1907 Nov. 1*, Dez. 4* . . . | A. N. 176, 193, 330 |
| 46 Hestia . . | Algier . . . | 1906 Dez. 22, 1907 Jan. 2 . . | » » 177, 51 |
| | Zô-sè . . . | 1907 Jan. 4, 5, 6, 7 . . . . | » » 177, 27 |
| | Padua . . . | 1908 März 23, 27 . . . | » » 178, 265 |
| 47 Aglaja . . | Greenwich . . | 1906 Sept. 26, 27, Okt. 16, 23 | M. N. 68, 38 |
| | Zô-sè . . . | » Okt. 5, 23, 24, 25, 27 . | A. N. 177, 25 |
| | Kopenhagen . | 1908 Ephemeridenkorrektion . . | » » 177, 29 |
| 48 Doris . . . | Heidelberg . . | 1907 Nov. 5* . . . . . . | » » 176, 235 |
| 49 Pales ? . . | Washington . | 1908 Febr. 1 . . . . . . | A. J. 26, 24 |
| 51 Nemausa . . | Greenwich . . | 1906 Juni 26 . . . . . . | M. N. 68, 36 |
| | Heidelberg . . | 1907 Nov. 4*, 5*, 7*, 30* . . | A. N. 176, 220, 235, 330 |
| 52 Europa . . | Washington . | » Febr. 25, 27, März 4 . . | A. J. 25, 186 |
| 53 Kalypso . . | Heidelberg . . | » Nov. 8* . . . . . . . | A. N. 176, 236 |

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|---|---|---|---|---|
| 53 Kalypso . . | Kopenhagen . | 1907 | Nov. 2 . . . . . . . | A. N. 176, 345 |
| | Düsseldorf . . | » | Okt. 10, 12, Nov. 1 . . | » » 177, 131 |
| | Marseille . . | » | Okt. 11, 12, 14 . . . | B. A. 25, 75 |
| | Kasan . . . | » | Nov. 4, 7 . . . . . . | A. N. 177, 201 |
| | Utrecht . . | » | Okt. 10, 12, 28, Nov. 1, 2, Nov. 3, 4 . . . . . . | » » 177, 277 |
| | Padua . . . | » | Okt. 11, 30, 31 . . . . | » » 177, 363 |
| | Jena . . . | » | Okt. 11, 14 . . . . . . | » » 178, 105 |
| | Taunton . . | » | Okt. 10*, Nov. 4* . . . | » » 178, 254, 255 |
| | Washington . | » | Okt. 25 . . . . . . . | A. J. 26, 20 |
| | Wien . . . | » | Okt. 11 . . . . . . . | A. N. 179, 19 |
| 56 Melete . . | Düsseldorf . . | » | Juli 19, 20, 21 . . . | » » 177, 131 |
| 57 Mnemosyne . | Washington . | » | April 3* . . . . . . . | » » 176, 121 |
| | Zô-sè . . . | » | April 6 . . . . . . . | » » 177, 27 |
| | Düsseldorf . . | » | April 2 . . . . . . . | » » 177, 131 |
| | Cincinnati . . | » | März 25, April 2 . . . | » » 177, 155 |
| | Kasan . . . | » | April 8, 9, 17, 19 . . | » » 177, 199 |
| | Philadelphia . . | » | April 19 . . . . . . | A. J. 26, 16 |
| | Arcetri . . . | » | April 23 . . . . . . | A. N. 178, 291 |
| | Padua . . . | 1908 | Mai 24, 25, 30, Juni 1 . | » » 178, 267 |
| 58 Concordia . | Taunton . . | 1907 | Dez. 12* . . . . . . . | » » 178, 255 |
| 60 Echo . . . | Washington . | » | Mai 11* . . . . . . . | » » 176, 122 |
| | Wien . . . | » | Mai 8, 11 . . . . . . | » » 178, 121 |
| | Heidelberg . . | 1908 | Aug. 20* . . . . . . | » » 178, 381 |
| 61 Danaë . . . | Düsseldorf . . | 1907 | Nov. 3, 4, 5, 6 . . . . | » » 177, 131 |
| | Jena . . . | » | Nov. 7, 8 . . . . . . | » » 178, 105 |
| 62 Erato . . . | Nizza . . . | » | Mai 4, 14, 16 . . . . | B. A. 24, 354 |
| | Wien . . . | » | April 21, Mai 2, 5, 11, 14 | A. N. 178, 121 |
| 63 Ausonia . . | Washington . | » | Okt. 30, Nov. 4 . . . . | A. J. 26, 20 |
| 65 Cybele . . | Greenwich . . | 1906 | Mai 24, 31 . . . . . . | M. N. 68, 35 |
| | Zô-sè . . . | » | Mai 31 . . . . . . . | A. N. 177, 23 |
| | Genf . . . | 1907 | Juli 29, 31, Aug. 2, 3 . | » » 176, 393 |
| | Nizza . . . | » | Aug. 19, 20 . . . . . | B. A. 25, 67 |
| | Marseille . . | » | Aug. 2, 3, 5, 6, 8, 9, 10, Aug. 12, 13, 14, 16, 17 . | » » 25, 73 |
| | Utrecht . . | » | Aug. 10, 11 . . . . . . | A. N. 177, 275 |
| | Padua . . . | » | Aug. 3, 11, 13, 14 . . | » » 177, 361 |
| 67 Asia . . . | Heidelberg . . | » | Nov. 2*, 8* . . . . . . | » » 176, 194, 219, 236 |
| | Taunton . . | » | Okt. 11*, Nov. 4* . . . | » » 178, 254, 255 |
| | Wien . . . | » | Okt. 31, Nov. 1, 5 . . . | » » 179, 19 |
| 68 Leto . . . | Zô-sè . . . | » | April 10 . . . . . . . | » » 177, 27 |
| | Düsseldorf . . | » | März 17, April 1, 2 . . | » » 177, 131 |
| | Cincinnati . . | » | März 23, 25, April 1 . . | » » 177, 155 |
| | Kasan . . . | » | März 21, April 8, 9 . . | » » 177, 199 |

| Nr. und Name | Beobachtungsort | Datum der Beobachtung | Publikation |
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| 68 Leto . . . | Utrecht . . . | 1907 März 22, April 4, 12, 15 | A. N. 177, 273 |
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| 71 Niobe . . . | Düsseldorf . . | » Sept. 4, 8, 9 . . . . | » » 177, 131 |
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| 74 Galatea . . | Wien . . . | » Mai 8 . . . . . . . | » » 178, 121 |
| 76 Freia . . . | Nizza . . . | 1908 Jan. 28, 29, 30, Febr. 12 | B. A. 25, 213 |
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| 78 Diana . . | Kasan . . . | 1882 Sept. 18, 19, 21, 23, 24 . | » » 178, 103 |
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| 84 Klio . . . | Wien . . . | » März 7, 11, 15 . . . . | » » 178, 121 |
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| 85 Io . . . . | Washington . | 1907 April 3* . . . . . . . | » » 176, 121 |
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| 87 Sylvia . . . | Heidelberg . . | » Nov. 8* . . . . . . . | A. N. 176, 236 |
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| 91 Aegina . . | Marseille . . | 1907 Aug. 13, 14, 16, 17, 27, 30, 31, Sept. 4, 5, 6, 7, 10 . . | B. A. 25, 73 |
| 92 Undina . . | Greenwich . . | 1906 Mai 31 . . . . . . . | M. N. 68, 36 |
| 93 Minerva . . | Washington . | 1907 April 3* . . . . . . . | A. N. 176, 121 |
| 94 Aurora ? . . | Washington . | » Dez. 6, 7, 11, 1908 Jan. 3, 5, Febr. 4 . . . . . . . | A. J. 26, 22 |
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| 100 Hekate . . | Washington . | 1907 Nov. 2, 7, 10 . . . . | A. J. 26, 21 |
| 101 Helena . . . | Heidelberg . . | 1908 März 22* . . . . . | A. N. 177, 287 |
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| 103 Hera . . . | Washington . | 1907 Mai 11*, 14* . . . . | A. N. 176, 121, 122 |
| 105 Artemis . . | Washington . | » Febr. 12, 15 . . . . | A. J. 25, 186 |
| 106 Dione . . . | Genf . . . | » Aug. 8, 13, 17 . . . . | A. N. 176, 393 |
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| | Padua . . . | » Aug. 6, 11, 17 . . . . | A. N. 177, 361 |
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| | Zô-sè . . . | » Sept. 20 . . . . . . | A. N. 177, 25 |
| | Nizza . . . | 1907 Dez. 30 . . . . . . | B. A. 25, 141 |
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| | Nizza . . . | 1908 Jan. 2 . . . . . . . | B. A. 25, 213 |
| 113 Amalthea . . | Zô-sè . . . | 1907 Jan. 1, 3 . . . . . | A. N. 177, 25 |
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| | Padua . . . | » Mai 20, 24 . . . . . | » » 178, 267 |
| | Nizza . . . | » Mai 20, 21, 29 . . . . | B. A. 25, 360 |
| 118 Peitho . . | Zô-sè . . . | 1906 März 6, 7, 14 . . . . | A. N. 177, 23 |

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| 120 Lachesis | Marseille | » Sept. 5, 6, 7, 9, 10, 14, 17. Sept. 18, 24, 25, 26. Okt. 2. Okt. 5. 11. 12. 14, 15 | B. A. 25, 74 |
| 121 Hermione | Zô-sè | 1906 Nov. 20 | A. N. 177. 25 |
| | Philadelphia | » Nov. 23 | A. J. 26, 15 |
| | Washington | 1908 Jan. 27, 30 | » » 26, 23 |
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| 122 Gerda | Greenwich | 1906 Juni 26 | M. N. 68. 36 |
| | Kasan | 1907 Sept. 4. 8. 9. 14 | A. N. 177, 201 |
| | Wien | » Sept. 13 | » » 179, 21 |
| 126 Velleda | Washington | 1906 Okt. 6, 8. 15 | A. J. 25, 191 |
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| 128 Nemesis | Washington | 1907 Mai 11* | » » 176, 121 |
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| 129 Antigone | Nizza | » Jan. 27, 30, Febr. 1, 2, 4 | » » 24, 355 |
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| 133 Cyrene | Heidelberg | » Jan. 3* | » » 177, 47 |
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| 134 Sophrosyne | Düsseldorf | » Ephemeridenkorrektion | A. N. 177, 207 |
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| 135 Hertha | Kopenhagen | » Ephemeridenkorrektion | » » 177, 207 |
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| 136 Austria | Greenwich | 1906 Aug. 15, 21. 22 | M. N. 68, 37 |
| 138 Tolosa | Heidelberg | 1908 März 23* | A. N. 177, 287 |
| 139 Juewa | Washington | 1907 Nov. 7, 13, 16 | A. J. 26, 21 |
| 146 Lucina | Greenwich | 1906 April 28 | M. N. 68. 35 |
| 147 Protogeneia | Nizza | 1907 April 17 | B. A. 25, 68 |
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| | Heidelberg | 1908 Juni 25* | » » 178, 199 |
| 148 Gallia | Greenwich | 1906 Mai 24 | M. N. 68. 35 |
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| 149 Medusa | Genf | » Aug. 17 | A. N. 176, 393 |
| 150 Nuwa ? | Washington | 1908 Jan. 29 | A. J. 26, 24 |
| 153 Hilda | Nizza | 1906 Okt. 20, 22, 24 | B. A. 24. 355 |
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| 154 Bertha | Zô-sè | 1906 März 18, 30, April 1 | » » 177, 23 |
| 161 Athor | Washington | 1908 Jan. 3, 5, 10 | A. J. 26, 23 |
| 168 Sibylla | Heidelberg | 1907 Okt. 4* | A. N. 176, 77 |
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| 174 Phaedra | Washington | » Nov. 29, Dez. 6, 7, 11 | » » 26, 22 |
| 175 Andromache | Nizza | 1906 Okt. 17, 18, 22 | B. A. 24, 355 |
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| 179 Klytaemnestra | Washington | 1907 Sept. 23, 25 | A. J. 26, 19 |
| 182 Elsa | Washington | 1908 März 4, 9 | » » 26, 25 |
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| 189 Phthia | Heidelberg | 1908 Juli 2* | A. N. 178, 224 |
| 190 Ismene | Nizza | 1907 Juni 29, Juli 2, 3 | B. A. 24, 355 |
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| 191 Kolga | Greenwich | 1906 April 28 | M. N. 68, 35 |
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| 194 Prokne | Nizza | 1908 Febr. 10, 11, 12, 19, 20 | B. A. 25, 365 |
| 195 Eurykleia | Heidelberg | » März 24* | A. N. 177, 288 |
| 196 Philomela | Nizza | 1907 Mai 14, 16 | B. A. 25, 68 |
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| 197 Arete | Heidelberg | » Okt. 4* | » » 176, 77 |
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| 198 Ampella | Kopenhagen | 1908 Ephemeridenkorrektion | » » 177, 29 |
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| 205 Martha . . | Heidelberg . . | 1907 Nov. 6* . . . . . . . | A. N. 176, 235 |
| 207 Hedda . . | Heidelberg . . | 1908 Jan. 2* . . . . . . . | » » 177, 75 |
| 215 Oenone . . | Heidelberg . . | » Juni 3* . . . . . . . | » » 178, 103 |
| 219 Thusnelda . | Taunton . . | » März 30*, April 2* . . | » » 177, 367 |
| 222 Lucia . . . | Heidelberg . . | 1907 Okt. 4*, Nov. 1*, 4* . . | » » 176, 78, 193, 219 |
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| 228 Agathe . . | Heidelberg . . | » Juli 25* . . . . . . . | A. N. 178, 304 |
| 230 Athamantis . | Washington . | 1907 Mai 12* . . . . . . . | » » 176, 122 |
| 233 Asterope . | Nizza . . . | 1906 Okt. 17, 18, 19 . . . | B. A. 24, 355 |
| 236 Honoria . . | Heidelberg . . | 1907 April 2* (A. N. 174, 255) gehört nicht dem Planeten (236) an; 1907 *YH* und (236) sind demnach nicht identisch . | A. N. 177, 239 |
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| 246 Asporina . . | Heidelberg . . | 1908 Juni 30* . . . . . . | A. N. 178, 224 |
| 247 Eukrate . . | Nizza . . . | » April 21, 22 . . . . | B. A. 25, 360 |
| 249 Ilse . . . | Wien . . . | 1907 Aug. 8 . . . . . . . | A. N. 178, 121 |
| 256 Walpurga . | Washington . | » April 17* . . . . . . | » » 176, 121 |
| 258 Tyche . . | Düsseldorf . . | 1908 Juli 24 . . . . . . . | » » 178, 301 |
| 267 Tirza . . . | Heidelberg . . | 1907 Nov. 6* . . . . . . . | » » 176, 235 |
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| 270 Anahita . . | Zô-sè . . . | 1906 Juni 12, 17 . . . . . | A. N. 177, 23 |
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| 287 Nephthys . . | Padua . . . | 1907 Aug. 8. 13. 14 . . . . | » » 177, 361 |
| 288 Glauke . . | Kopenhagen . | » Ephemeridenkorrektion . . | » » 177, 29 |
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| 297 Caecilia . . | Wien . . . | 1907 Sept. 5 . . . . . . . | A. N. 178, 121 |
| 302 Clarissa . . | Washington . | » März 23, April 9, 17 . . | A. J. 25, 187 |
| 303 Josephina . . | Rom . . . | » Jan. 9, 10 . . . . . . | A. N. 176, 349 |
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| 306 Unitas . . | Heidelberg . . | 1907 Nov. 8* . . . . . . . | » » 176, 236 |
| 308 Polyxo . . | Greenwich . . | 1906 Aug. 22, 28 . . . . . | M. N. 68, 37 |
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| 312 Pierretta . . | Wien . . . | 1908 Ephemeridenkorrektion . . | A. N. 177, 223 |
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| 313 Chaldaea . . | Rom . . . | » Ephemeridenkorrektion . . | A. N. 177, 351 |
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| 317 Roxane . . | Wien . . . | 1907 März 7 . . . . . . . | A. N. 178, 121 |
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| 318 Magdalena . | Heidelberg . . | » Juli 22* . . . . . . . | » » 178, 287 |
| 320 Katharina . . | Heidelberg . . | 1907 Nov. 6* . . . . . . . | » » 176, 235 |
| 322 Phaeo . . . | Wien . . . | » März 12 . . . . . . . | » » 178, 121 |
| 324 Bamberga . | Greenwich . . | 1906 April 14, 19, 25, 26 . . | M. N. 68, 35 |
| 326 Tamara . . | Taunton . . | 1907 Okt. 2*, 4* . . . . . . | A. N. 176, 247 |
| | Heidelberg . . | » Nov. 10* . . . . . . . | » » 176, 264 |
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| 334 Chicago . . | Rom . . . | 1907 Juli 31, Aug. 7 . . . | A. N. 176, 353 |
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| 335 Roberta . . | Washington . | » Mai 11*, 14* . . . . . | A. N. 176, 121, 122 |
| 339 Dorothea . . | Rom . . . | » Juli 18, 27 . . . . . | » » 176, 353 |
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| 340 Eduarda . . | Nizza . . . | 1906 Nov. 21, 22, 23 . . . | » » 24, 355 |
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| 342 Endymion . | Wien . . . | 1907 Juni 17, 18 . . . . . | » » 178, 121 |
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| 346 Hermentaria . | Kopenhagen . | 1908 Ephemeridenkorrektion . . | » » 177, 207 |
| 351 Yrsa . . . | Zô-sè . . . | 1907 Febr. 1 . . . . . . . | » » 177, 27 |
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| 524 Fidelio | Heidelberg | 1908 Jan. 30*, Febr. 2* | » » 177, 125, 126 |
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| 526 Jena | Heidelberg | 1907 Nov. 2*, 8* | » » 176, 194, 236 |
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| 530 Turandot | Nizza | 1906 Nov. 20, 21, 22 | B. A. 24, 357 |
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| 532 Herculina | Kasan | 1904 April 24, 26, 28, Mai 2, 4, Mai 8, 10 | » » 177, 195 |
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| 532 Herculina . . | Washington . | 1908 Jan. 5, 9, 15 . . . . . | A. J. 26, 23 |
| 533 Sara . . . | Heidelberg . . | » Jan. 4*, 11* . . . . . | A. N. 177, 75, 76 |
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| 535 Montague . . | Wien . . . | » Ephemeridenkorrektion . . | A. N. 177, 365 |
| 536 Merapi . . | Nizza . . . | 1906 Nov. 14, 19, 20 . . . | B. A. 24, 357 |
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| 537 Pauly . . . | Wien . . . | » Febr. 15, 18 . . . . . | A. N. 178, 125 |
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| 545 Messalina . . | Wien . . . | 1907 Mai 7 . . . . . . . | » » 178, 125 |
| 547 Praxedis . . | Heidelberg . . | 1908 Juni 26* . . . . . . | » » 178, 200 |
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| 559 Nanon . . | Heidelberg . . | » Nov. 8* . . . . . . . | » » 176, 236 |
| 562 Salome . . | Heidelberg . . | » Nov. 7* . . . . . . . | » » 176, 235 |
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| 573 [1905 *RC*] . | Heidelberg . . | » März 3* . . . . . . . | A. N. 177, 240 |
| | Wien . . . | » März 11 . . . . . . . | » » 177, 255 |
| 577 [1905 *RH*] . | Heidelberg . . | » Febr. 10* . . . . . . . | » » 177, 142 |
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| 579 [1905 *SD*] . | Königsberg . | 1907 Febr. 12 . . . . . . . | A. N. 176, 115 |
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| 581 Tauntonia . | Washington . | 1907 März 11, 20 . . . . . | A. J. 25, 186 |
| 582 [1906 *SO*] . | Heidelberg . . | 1908 Juli 26* . . . . . . . | A. N. 178, 304 |
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| | Arcetri . . . | » März 8, 9, 12, 13 . . . | » » 178, 305 |
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| 588 Achilles . . | Williamsbay . | 1907 Febr. 12, 17, März 19, 20, April 2, 14, 16, Mai 7, Juni 2 . . . . . . . | » » 176, 89 |
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| 589 [1906 *TM*] . | Heidelberg . . | 1908 Juli 23*, Aug. 19* . . | » » 178, 303, 381 |
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| 592 [1906 *TS*] . | Heidelberg . . | » Juli 22* . . . . . . . | » » 178, 287 |
| 599 [1906 *UJ*] . | Heidelberg . . | 1907 Nov. 5* . . . . . . . | » » 176, 235 |
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| 600 [1906 *UM*] . | Washington . | » Okt. 24, 29, 30, Nov. 4 . | » » 26, 20 |
| 611 [1906 *VL*] . | Taunton . . | 1908 Febr. 3* . . . . . . . | A. N. 177, 175 |
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| 615 [1906 *VR*] = [1908 *BX*] | Heidelberg . . | » Jan. 23*, Febr. 2* . . . . | A. N. 177, 93, 126 |
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| 631 [1907 *YJ*] . | Wien . . . | » April 11, 20, Mai 5, 7, 11, Mai 31, Juni 9, 15, 17, 28, Juli 1 . . . . . . . . | » » 178, 129 |
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| [1907 *AF*$^{a}$] . | Taunton . . | » Sept. 12* . . . . . . . | » » 178, 253 |
| [1907 *AG*] . | Taunton . . | » Sept. 13*, 14* . . . . . | » » 176, 329 |
| | Washington . | » Sept. 29, 30, Okt. 2, 5, 8, Okt. 9, 12, 14, 30 . . . | A. J. 26, 19 |
| [1907 *AJ*] . | Heidelberg . . | » Okt. 4*, 10*, Nov. 4* . . | A. N. 176, 77, 147, 219 |
| | Wien . . . | » Okt. 7, 9, 13, Nov. 7 . . | » » 178, 135 |
| [1907 *AK*] . | Heidelberg . . | » Okt. 4*, Nov. 1* . . . . | » » 176, 77, 193 |
| [1907 *AL*] . | Heidelberg . . | » Okt. 4*, Nov. 4*, 10*, 30* | » » 176, 78, 220, 263, 329 |
| | Wien . . . | » Nov. 7, 8 . . . . . . . | » » 178, 135 |
| [1907 *AN*$^{a}$] . | Taunton . . | » Okt. 8* . . . . . . . . | » » 178, 253 |
| [1907 *AN*$^{b}$] . | Taunton . . | » Okt. 10*, 30*, Nov. 4* . | » » 178, 254, 255 |
| [1907 *AN*$^{c}$] . | Taunton . . | » Okt. 10* . . . . . . . | » » 178, 254 |
| [1907 *AN*$^{d}$] . | Taunton . . | » Okt. 10* . . . . . . . | » » 178, 254 |
| [1907 *AN*$^{e}$] . | Taunton . . | » Okt. 30* . . . . . . . | » » 178, 254 |
| [1907 *AN*$^{f}$] . | Taunton . . | » Okt. 30*, Nov. 4* . . . | » » 178, 254, 255 |
| [1907 *AN*$^{g}$] . | Taunton . . | » Okt. 30* . . . . . . . | » » 178, 254 |
| [1907 *AN*$^{h}$] . | Taunton . . | » Okt. 30* . . . . . . . | » » 178, 254 |
| [1907 *AN*$^{i}$] . | Taunton . . | » Okt. 30* . . . . . . . | » » 178, 255 |

[1]) Mit (320) Katharina bezeichnet.

| Nr. und Name | Beobachtungsort | Datum der Beobachtung | Publikation |
|---|---|---|---|
| [1907 *AN*[k]] . | Taunton . . | 1907 Okt. 30* . . . . . . . | A. N. 178, 255 |
| [1907 *AO*] . | Heidelberg . . | » Nov. 1*, Dez. 4* . . . | » » 176, 193, 330 |
| | Wien . . . | » Nov. 4, 6, 8 . . . . | » » 178, 137 |
| [1907 *AP*] . | Heidelberg . . | » Nov. 2*, 8* . . . . . . | » » 176, 194, 236 |
| | Wien . . . | » Nov. 5, 7 . . . . . | » » 178, 137 |
| | Taunton . . | » Okt. 10*, 30*, Nov. 4* . | » » 178, 254, 255 |
| [1907 *AR*] . | Heidelberg . . | » Nov. 2*, 8* . . . . . . | » » 176, 194, 236 |
| | Wien . . . | » Nov. 5, 7 . . . . . | » » 178, 137 |
| | Taunton . . | » Okt. 30*, Nov. 4* . . . | » » 178, 255 |
| [1907 *AS*] . | Heidelberg . . | » Nov. 2*, 8* . . . . . . | » » 176, 194, 236 |
| | Wien . . . | » Nov. 5, 7, 8 . . . . | » » 178, 137 |
| [1907 *AT*] . | Heidelberg . . | » Nov. 2*, 8* . . . . . . | » » 176, 194, 236 |
| | Wien . . . | » Nov. 5, 6, 8, 12 . . . | » » 178, 137 |
| [1907 *AV*] . | Heidelberg . . | » Nov. 4* . . . . . . . | » » 176, 219 |
| [1907 *AW*] . | Heidelberg . . | » Nov. 4*, 30* . . . . . | » » 176, 220, 330 |
| | Wien . . . | » Nov. 7, 8 . . . . . | » » 179, 23 |
| [1907 *AX*] = 518 ? | Heidelberg . . | » Nov. 5* . . . . . . . | » » 176, 235 |
| | Wien . . . | » Nov. 12 . . . . . . . | » » 178, 137 |
| [1907 *AY*] . | Heidelberg . . | » Nov. 6* . . . . . . . | » » 176, 235 |
| [1907 *AZ*] . | Heidelberg . . | » Nov. 6* . . . . . . . | » » 176, 235 |
| [1907 *BA*] = 566 ? | Heidelberg . . | » Nov. 7*, 30* . . . . . | » » 176, 235, 329 |
| | Nizza . . . | » Dez. 4, 6, 9 . . . . . | B. A. 25, 142 |
| [1907 *BB*] . | Heidelberg . . | » Nov. 8*, 10* . . . . . | A. N. 176, 236, 263 |
| [1907 *BC*] . | Heidelberg . . | » Nov. 8*, 10* . . . . . | » » 176, 236, 263 |
| [1907 *BD*] . | Heidelberg . . | » Nov. 8* . . . . . . . | » » 176, 236 |
| [1907 *BE*] . | Taunton . . | » Nov. 3*, 9* . . . . . . | » » 176, 329 |
| | Heidelberg . . | » Nov. 4*, 5* . . . . . . | » » 176, 329 |
| | Washington . | » Nov. 13, 14, 25, 29, Dez. 2, Dez. 8, 11 . . . . . . | A. J. 26, 21 |
| [1907 *BF*] . | Taunton . . | » Nov. 4*, 9* . . . . . . | A. N. 176, 329, 395 |
| | Heidelberg . . | » Nov. 4* . . . . . . . | » » 176, 329 |
| | Washington . | » Nov. 13, 14, 25, 29, Dez. 2, Dez. 8, 11 . . . . . . | A. J. 26, 21 |
| [1907 *BG*] . | Heidelberg . . | » Nov. 10*, 30* . . . . . | A. N. 176, 329, 330 |
| [1907 *BH*] . | Heidelberg . . | » Nov. 30* . . . . . . . | » » 176, 329 |
| [1907 *BJ*] . | Heidelberg . . | » Dez. 4* . . . . . . . | » » 176, 330 |
| [1907 *BJ*[a]] . | Taunton . . | » Dez. 8* . . . . . . . | » » 178, 255 |
| [1907 *BL*] . | Taunton . . | » Dez. 11*, 12*, 26* . . . | » » 177, 31, 95 |
| | Washington . | » Dez. 31, 1908 Jan. 2, 8 . | A. J. 26, 22 |
| [1908 *BN*] . | Heidelberg . . | 1908 Jan. 23*, 24*, Febr. 2* . | A. N. 177, 93, 94, 141 |
| | Heidelberg . . | » Jan. 3, 5 . . . . . . | » » 177, 141 |
| [1908 *BO*] . | Heidelberg . . | » Jan. 3* . . . . . . . | » » 177, 48 |
| [1908 *BP*] . | Heidelberg . . | » Jan. 5*, 11*, 23* . . . | » » 177, 75, 76, 93 |

| Nr. und Name | Beobachtungsort | Datum der Beobachtung | Publikation |
|---|---|---|---|
| [1908 *BQ*] . | Heidelberg . . | 1908 Jan. 5*, 23*, 24*, Febr. 2* | A. N. 177, 75, 93, 94, 141 |
| [1908 *BR*] . | Heidelberg . . | » Jan. 12*, 24* . . . . . | » » 177, 76, 94 |
| [1908 *BT*] . | Heidelberg . . | » Jan. 12*, 24* . . . . . | » » 177, 76, 94 |
| [1908 *BY*] . | Heidelberg . . | » Jan. 23* . . . . . . . | » » 177, 94 |
| | Wien . . . | » Jan. 30 . . . . . . . | » » 177, 255 |
| [1908 *BZ*] . | Taunton . . | » Jan. 8* . . . . . . . | » » 177, 95 |
| [1908 *CA*] . | Taunton . . | » Jan. 8* . . . . . . . | » » 177, 95 |
| [1908 *CB*] . | Taunton . . | » Jan. 8* . . . . . . . | » » 177, 96 |
| [1908 *CC*] . | Taunton . . | » Jan. 8*, 10*, 31*, Febr. 4*, Febr. 28*, 29*, März 3* . | » » 177, 96, 175, 284 |
| | Washington . | » Jan. 12, 14, 19, 24, 29, März 7, 10, 21, 24 . . | A. J. 26, 23 |
| [1908 *CD*] . | Taunton . . | » Jan. 30* . . . . . . . | A. N. 177, 175 |
| [1908 *CE*] . | Taunton . . | » Jan. 30* . . . . . . . | » » 177, 175 |
| [1908 *CE*[a]] . | Taunton . . | » Jan. 30* . . . . . . . | » » 178, 256 |
| [1908 *CF*] . | Taunton . . | » Febr. 4*, 7*, 22* . . . | » » 177, 176, 283 |
| | Washington . | » Febr. 24, März 3 . . . . | A. J. 26, 24 |
| [1908 *CG*] . | Taunton . . | » Febr. 4*, 7*, 22* . . . | A. N. 177, 176, 283 |
| | Washington . | » Febr. 24, 28, März 4 . . | A. J. 26, 24 |
| [1908 *CH*] . | Taunton . . | » Febr. 4*, 7*, 20* . . . | A. N. 177, 176, 283 |
| | Washington . | » Febr. 21, 22, 24, 28 . . | A. J. 26, 24 |
| [1908 *CK*] . | Heidelberg . . | » März 3*, 24* . . . . . | A. N. 177, 239, 288 |
| | Wien . . . | » März 11 . . . . . . . | » » 177, 255 |
| [1908 *CL*] . | Taunton . . | » Febr. 22*, 24* . . . . | » » 177, 283 |
| | Washington . | » Febr. 26, März 3, 7, 9, 21, März 24, 27, April 3 . . | A. J. 26, 25 |
| [1908 *CL*[a]] . | Taunton . . | » Febr. 24* . . . . . . | A. N. 178, 256 |
| [1908 *CM*] . | Taunton . . | » Febr. 28*, März 5*, April 2*, April 4*, 21* . . . . | » » 177, 284, 367, 368, 178, 69 |
| [1908 *CN*] . | Taunton . . | » März 3*, 5* . . . . . | » » 177, 284 |
| [1908 *CO*] . | Taunton . . | » März 3*, 5* . . . . . | » » 177, 284 |
| [1908 *CP*] . | Taunton . . | » März 3*, 5* . . . . . | » » 177, 284 |
| [1908 *CQ*] . | Heidelberg . . | » März 22* . . . . . . | » » 177, 287 |
| [1908 *CR*] . | Heidelberg . . | » März 23* . . . . . . | » » 177, 287 |
| | Kopenhagen . | » März 27, April 1 . . . . | » » 177, 317 |
| [1908 *CT*] . | Heidelberg . . | » März 24* . . . . . . | » » 177, 288 |
| [1908 *CU*] . | Heidelberg . . | » März 25* . . . . . . | » » 177, 317 |
| [1908 *CV*] . | Tokio . . . | » Febr. 9*, 26*, März 8* . | » » 177, 349 |
| [1908 *CW*] . | Taunton . . | » März 30*, April 24*, Mai 1*, Mai 25* . . . . . . . | » » 177, 367, 178, 69, 199 |

| Nr. und Name | Beobachtungsort | Datum der Beobachtung | Publikation |
|---|---|---|---|
| [1908 *CW*] . | Washington . | 1908 Mai 2 . . . . . . . . | A. J. 26, 25 |
| [1908 *CX*] . | Taunton . . | » April 4*, 6* . . . . | A. N. 177, 368 |
| [1908 *CY*] . | Taunton . . | » April 4*, 6*, 20*, 24* . | » » 177, 368. 178, 69 |
| | Washington . | » Mai 2 . . . . . . . | A. J. 26, 26 |
| [1908 *CZ*] . | Taunton . . | » April 6*, 20*, 24*, Juni 3* | A. N. 177, 368. 178, 69, 199 |
| | Washington . | » Mai 2, 9, Juni 5 . . . | A. J. 26, 26 |
| [1908 *DA*] . | Taunton . . | » April 20*, 24*, 26* . . | A. N. 178, 70 |
| | Washington . | » April 30, Mai 2 . . . | A. J. 26, 26 |
| [1908 *DB*] . | Taunton . . | » April 24*, 26* . . . . | A. N. 178, 70 |
| | Washington . | » April 30 . . . . . . | A. J. 26, 26 |
| [1908 *DC*] . | Taunton . . | » April 26*, Mai 1*, 19* . | A. N. 178, 70, 199 |
| | Washington . | » Mai 23, 25, Juni 1, 5 . | A. J. 26, 26 |
| [1908 *DD*] . | Taunton . . | » April 26* . . . . . . | A. N. 178, 70 |
| [1908 *DE*] . | Heidelberg . . | » Mai 29*, Juni 1* . . . . | » » 178, 70, 103 |
| [1908 *DF*] . | Taunton . . | » Juni 6*, 7* . . . . . | » » 178, 199 |
| [1908 *DG*] . | Heidelberg . . | » Juni 24*, 29* . . . . | » » 178, 199, 223 |
| [1908 *DH*] . | Heidelberg . . | » Juni 24*, 29* . . . . | » » 178, 199, 223 |
| [1908 *DJ*] . | Heidelberg . . | » Juni 25* . . . . . . | » » 178, 199 |
| [1908 *DK*] . | Heidelberg . . | » Juli 22*, 24* . . . . | » » 178, 303 |
| [1908 *DM*] . | Heidelberg . . | » Juli 23* . . . . . . | » » 178, 303 |
| [1908 *DN*] . | Heidelberg . . | » Juli 23*, 27*, Aug. 19* . | » » 178, 303, 304, 381 |
| [1908 *DO*] . | Heidelberg . . | » Juli 27*, Aug. 18* . . . | » » 178, 304, 381 |
| [1908 *DP*] . | Heidelberg . . | » Aug. 20* . . . . . . | » » 178, 381 |
| [1908 *DQ*] . | Heidelberg . . | » Aug. 20*, 22* . . . . | » » 178, 382 |
| [1908 *DR*] . | Heidelberg . . | » Aug. 20*, 22* . . . . | » » 178, 382 |
| [1908 *DS*] . | Heidelberg . . | » Aug. 22* . . . . . . | » » 178, 382 |
| [1908 *DT*] . | Greenwich . . | » Aug. 24*, 29*, 30* . . | » » 178, 399 |

## B. Berechnungen.

Durch ein Sternchen (*) sind die Ephemeriden mit ausführlich gerechneten Positionen kenntlich gemacht.

| Nr. und Name | Ort der Publikation | Gegenstand |
|---|---|---|
| 8 Flora . . . | M. N. 68, 216 . . . | Ephemeride*. |
| 129 Antigone . . | A. N. 178, 199 . . | Ephemeride. |
| 279 Thule . . . | » » 176, 77 . . | Elemente, Ephemeride*. |
| | » » 177, 15 . . | Ephemeride. |
| 283 Emma . . | B. A. 25, 217 . . . | Ephemeride. |
| 313 Chaldaea . . | A. N. 177, 285 . . | Ephemeride. |
| 318 Magdalena . | » » 176, 317 . . | Bahnverbesserung. |
| 354 Eleonora . . | » » 177, 283 . . | Ephemeride. |
| | B. A. 25, 143 . . . | |
| 357 Ninina = [1907 *AH*] | A. N. 177, 317 . . | Provisorische Elemente. |
| 363 Padua . . | » » 178, 15 . . | Ephemeride. |
| 387 Aquitania . | » » 177, 173 . . | Ephemeride. |
| | B. A. 25, 145 . . . | |
| 433 Eros . . . | A. N. 176, 211 . . | Elemente. |
| 434 Hungaria . . | » » 177, 77 . . | Ephemeride. |
| 444 Gyptis . . | » » 177, 123 . . | Elemente, Ephemeride. |
| | B. A. 25, 94 . . . | |
| 446 Aeternitas . | A. N. 178, 319 . . | Ephemeride. |
| 447 Valentine . | » » 178, 55 . . | Ephemeride*. |
| 465 Alekto = [1907 *YD*] | A. J. 26, 14 . . . | Elemente, Ephemeride. |
| 472 Roma . . . | A. N. 177, 237 . . | Elemente, Ephemeride*. |
| 497 Iva . . . | » » 176, 219 . . | Ephemeride. |
| 506 Marion . . | » » 176, 377 . . | Ephemeride. |
| 507 Laodica . . | » » 176, 261 . . | Ephemeride. |
| 518 Halawe . . | » » 176, 79 . . | Ephemeride. |
| 533 Sara . . . | » » 176, 315 . . | Ephemeride. |
| 534 Nassovia . . | » » 176, 375 . . | Ephemeride. |
| 554 Peraga . . | B. A. 24, 350 . . . | Ephemeride. |
| 563 Suleika . . | A. N. 176, 47 . . | Ephemeride. |
| | B. A. 24, 348 . . . | |
| 581 Tauntonia . | A. N. 177, 349 | Elemente, Ephemeride. |
| 584 [1906 *SY*] . | B. A. 25, 179 . . . | Ephemeride. |
| 605 [1906 *UU*] . | A. N. 176, 71 . . | Elemente. |
| | » » 177, 77 . . | Elemente, Ephemeride. |
| | B. A. 25, 136 . . . | Elemente. |
| 606 [1906 *VB*] . | A. N. 176, 71 . . | Elemente. |

| Nr. und Name | Ort der Publikation | Gegenstand |
|---|---|---|
| 607 [1906 *VC*] . | A. N. 176, 71 . . | Elemente. |
| 608 [1906 *VD*] . | » » 176, 71 . . | Elemente. |
| 609 [1906 *VF*] . | » » 176, 71 . . | Elemente. |
| 610 [1906 *VK*] . | » » 176, 71 . . | Elemente. |
| 611 [1906 *VL*] . | » » 177, 31 . . | Ephemeride. |
| 613 [1906 *VP*] . | » » 176, 71 . . | Elemente. |
| 614 [1906 *VQ*] . | » » 176, 71 . . | Elemente. |
| 615 [1906 *VR*] . | » » 176, 71 . . | Elemente. |
| 616 [1906 *VT*] . | » » 176, 71 . . | Elemente. |
| 617 Patroclus . . | » » 176, 193, 251 . | Elemente, Ephemeride*. |
| 618 [1906 *VZ*] . | » » 176, 71 . . | Elemente. |
| 619 [1906 *WC*] . | » » 176, 71 . . | Elemente. |
| 620 Drakonia . . | » » 177, 368 . . | Ephemeride*. |
| 621 [1906 *WJ*] . | » » 176, 71 . . | Elemente. |
| 622 [1906 *WP*] . | » » 177, 251 . . | Ephemeride. |
| 623 [1907 *XJ*] . | » » 176, 71 . . | Elemente. |
| 624 Hektor . . | » » 177, 123 . . | Ephemeride. |
| 625 [1907 *XN*] . | » » 176, 71 . . | Elemente. |
| 626 [1907 *XO*] . | » » 176, 71 . . | Elemente. |
| 627 [1907 *XS*] . | » » 176, 71 . . | Elemente. |
| 628 [1907 *XT*] . | » » 176, 71 . . | Elemente. |
| 629 [1907 *XU*] . | » » 176, 71 . . | Elemente. |
| 630 [1907 *XW*] . | » » 176, 71 . . | Elemente. |
| 631 [1907 *YJ*] . | » » 176, 71, 213 . | Elemente. |
| 632 [1907 *YX*] . | » » 176, 71 . . | Elemente. |
| 633 [1907 *ZM*] . | » » 176, 71 . . | Elemente. |
| 634 [1907 *ZN*] . | » » 176, 71 . . | Elemente. |
| 635 [1907 *ZS*] . | » » 176, 71 . . | Elemente. |
| 637 [1907 *YE*] . | A. J. 26, 30 . . . | Elemente, Ephemeride*. |
| 638 [1907 *ZQ*] . | » » 26, 30 . . . | Elemente, Ephemeride. |
| 644 [1907 *AA*] . | A. N. 177, 317 . . | Elemente, |
| 652 Jubilatrix . | » » 177, 317 . . | Elemente. |
| 653 [1907 *BK*] . | A. J. 26, 38 . . . | Elemente, Ephemeride. |
| 654 Zelinda . . | A. N. 177, 93, 111, 157 | Elemente, Ephemeride. |
| 659 [1908 *CS*] . | » » 177, 399 . . | Kreisbahn, Ephemeride. |
| | » » 178, 71 . . | Elemente, Ephemeride*. |
| [1906 *UT*] . | » » 176, 71 . . | Elemente. |
| [1906 *VM*] . | » » 177, 159 . . | Elemente, Ephemeride.[1] |
| [1906 *WA*] . | » » 176, 71 . , | Elemente. |
| [1907 *YC*] . | » » 178, 200 . . | Ephemeride. |
| [1908 *CV*] . | » » 177, 349 . . | Elemente, Ephemeride. |

[1]) Die hier mitgeteilten Elemente sind unbrauchbar.

# Erläuterungen zu den Ephemeriden und Tafeln des Jahrbuchs für 1911.

Das Jahrbuch gibt die Örter der Wandelsterne in zwei Gattungen von Koordinaten an, in Ekliptikal- und Äquatorial-Koordinaten.

Bei den Ekliptikal-Koordinaten ist im allgemeinen als Anfangspunkt der Sonnenmittelpunkt angenommen und eine feste Lage der Ekliptik und des Äquinoktiums zu Grunde gelegt.

Bei den Äquatorial-Koordinaten ist als Anfangspunkt der Erdmittelpunkt angenommen und die jedesmalige wahre Lage des Äquators und des Äquinoktiums zu Grunde gelegt.

Die Zeitangaben für die im Jahrbuch mitgeteilten Örter sind überall, wo nicht ausdrücklich eine andere Zeit erwähnt wird, in mittlerer Berliner Sonnenzeit ausgedrückt. Die Lage des Berliner Meridians gegen diejenigen Meridiane, auf deren Zeitangaben sich die im Jahrbuch benutzten Sonnen-, Mond- und Planetentafeln begründen, ist nach den neusten Bestimmungen angenommen:

Berlin östlich von Paris um $44^m\ 13^s.86$,
Berlin östlich von Greenwich um $53^m\ 34^s.80$.

Der Anfang des Tages ist der Mittag; die Zählung der Stunden ist durchgängig bis 24 angenommen worden, so dafs die Stunden unter 12 die Nachmittagstunden desselben bürgerlichen Tages, die Stunden über 12, wenn man sie um 12 vermindert, die Vormittagstunden des nächstfolgenden bürgerlichen Tages sind.

Das Jahrbuch enthält aufser den Angaben über die Zeit- und Festrechnung folgende

## Hauptabschnitte:

## 1) Reduktionselemente.

Die auf Seite 1 gegebene Übersicht der Reduktionselemente enthält für die mittleren Mittage von 10 zu 10 Tagen fortschreitend folgende Angaben:

1) Die mittlere Schiefe der Ekliptik, berechnet nach der Angabe von Newcomb (*Tables of the Motion of the Earth,* S. 10), nämlich:

$$\varepsilon = 23^\circ\, 27'\, 8''.26 - 0''.4685\ (t - 1900\ \text{Jan.}\ 0).$$

2) Die scheinbare Schiefe der Ekliptik, entstanden aus der vorhergehenden unter Hinzufügung der Nutation in Schiefe, nämlich:

$$\Delta\varepsilon = +0''.5519 \cos 2\odot + 0''.0092 \cos(\odot + 281^\circ\, 24') + 9''.210 \cos \Omega - 0''.0895 \cos 2\,\Omega.$$

Das kurzperiodische Glied

$$+0''.0884 \cos 2\,☾$$

ist hier weggelassen, findet sich aber in der letzten Kolumne der Sonnenephemeride von Tag zu Tag aufgeführt.

3) Die Präzession in Länge, berechnet mit der Newcombschen Präzessionskonstante:

Jährliche Präzession in Länge für 1911: $50''.2588$.

4) Die Nutation in Länge, berechnet aus:

$$-1''.2725 \sin 2\odot + 0''.1477 \sin(\odot + 81^\circ 49')$$
$$-17''.2334 \sin \Omega + 0''.2070 \sin 2\Omega.$$

Die kurzperiodischen Glieder

$$-0''.2038 \sin 2 ☾ + 0''.0676 \sin(☾ - \Gamma')$$

sind hier weggelassen, finden sich aber in der Sonnenephemeride in der vorletzten Kolumne von Tag zu Tag aufgeführt.

Die angegebene Nutation entspricht dem Zeichen nach der Reduktion von mittlerer Länge auf wahre.

5) Die Aberration der Sonne, mit der von der Pariser Konferenz angenommenen Konstanten $20''.47$ berechnet.

6) Die Parallaxe der Sonne, mit der von der Pariser Konferenz angenommenen Konstanten $8''.80$ berechnet.

## 2) Sonnenephemeride.

Bei der Sonnenephemeride, welche nach den Sonnentafeln von Newcomb (*Astr. Papers* Vol. VI, Part. I) berechnet ist, enthält die linke Seite diejenigen Angaben, welche bei der Beobachtung der Sonne gebraucht werden; ihre Epoche ist der mittlere Berliner Mittag.

Sie enthält aufser dem Datum des Monats und dem Wochentage in sieben neben einander stehenden Kolumnen:

1) Die Zeitgleichung oder den Unterschied zwischen wahrer und mittlerer Zeit.

2) Die scheinbare Rektascension der Sonne.

3) Die ersten Differenzen dieser Zahlenreihe.

4) Die scheinbare Deklination der Sonne.

5) Die ersten Differenzen dieser Zahlenreihe.

6) Die Durchgangsdauer der Sonne in Sternzeit.

7) Den scheinbaren Halbmesser der Sonnenscheibe.

Bei der Rektascension und Deklination ist die Aberration bereits angebracht, dieselben sind daher direkt mit den Beobachtungen vergleichbar.

Gemäfs den Beschlüssen der Pariser Konferenz sind die Nutationsglieder kurzer Periode hier ebenso wie bei den folgenden Planetenephemeriden weggelassen.

Auf der rechten Seite stehen, ebenfalls mit der Epoche des mittleren Berliner Mittags, aufser dem Monats- und Jahrestage in acht Kolumnen neben einander:

1) Die Sternzeit im mittleren Mittage oder die wahre Rektascension der mittleren Sonne.

2) Die Länge der Sonne bezogen auf die mittlere Ekliptik und das mittlere Äquinoktium 1911.0 (annus fictus).

3) Die ersten Differenzen dieser Zahlenreihe.

4) Die Breite der Sonne bezogen auf die mittlere Ekliptik und das mittlere Äquinoktium 1911.0 (annus fictus).

5) und 6) Der Logarithmus des Radius vector der Sonne mit den Differenzen.

7) und 8) Die von der Mondlänge abhängigen Glieder der Nutation in Länge und Schiefe der Ekliptik, nämlich:

$$d\lambda = -0''.2038 \sin 2☾ + 0''.0676 \sin (☾ - \Gamma')$$
$$d\varepsilon = +0''.0884 \cos 2☾.$$

Die Koordinaten dieser Seite sollen bei Bahnberechnungen und dergleichen dienen, sie sind deshalb frei von Aberration, deren Berücksichtigung nur bei ihrer Anwendung zur Vorausberechnung von Finsternissen erforderlich wäre. Für diesen Fall findet man die Korrektion, die man von der Länge abziehen mufs, in der vorletzten Kolumne der Seite 1.

Für die Berechnung des scheinbaren Sonnenhalbmessers ist nach Professor Auwers 15′ 59″.63 angenommen.

Auf Seite 22—41 folgen die rechtwinkeligen Sonnenkoordinaten von $12^h$ zu $12^h$ mittlerer Zeit, bezogen auf die mittlere Lage des Äquators und Äquinoktiums für den Anfang des *annus fictus* 1911 (1911 Jan. 1.01).

Diese Koordinaten sind bekanntlich mit entgegengesetzten Zeichen die Koordinaten des Erdmittelpunktes gegen den Sonnenmittelpunkt als Ursprung, bezogen auf eine $X$-Achse, deren positive Richtung in einer durch den Sonnenmittelpunkt parallel der Ebene des Erdäquators gelegten Ebene durch die Linie des aufsteigenden Knotens der Erdbahn in dieser heliozentrischen Äquatorialebene bestimmt wird, deren positive $Y$-Achse in der heliozentrischen Äquatorialebene 90° in der Richtung der Erdbewegung von der $X$-Achse absteht, und deren positive $Z$-Achse parallel der Erdachse nach der nördlichen Seite gerichtet ist.

Neben den Koordinaten stehen von Tag zu Tag die Reduktionen derselben auf das mittlere Äquinoktium des benachbarten Jahrzehnt-Anfanges 1910.0 in Einheiten der letzten Dezimale; sie dienen zur bequemen Verbindung der Koordinatenangaben aufeinanderfolgender Jahre.

## 3) Mondephemeride.

Von den die Mondephemeride enthaltenden Seiten 42—81 geben die links liegenden Seiten für mittleren Mittag und Mitternacht:

1) Die wahre Rektascension des Mondes mit den Differenzen.

2) Die wahre Deklination des Mondes mit den Differenzen.

3) Den log. Sinus der Äquatorial-Horizontal-Parallaxe des Mondes mit den Differenzen.

4) Den scheinbaren Halbmesser des Mondes.

Unterhalb dieser Kolumnen sind die Epochen der Mondphasen angegeben.

Auf den rechts liegenden Seiten befinden sich die Angaben, welche die Meridianbeobachtungen des Mondes und ihre Reduktion unterstützen sollen, sowie nach dem Verzeichnis des *Nautical Almanac* die genäherten Örter der sogenannten Mondsterne, deren korrespondierende Beobachtung in Verbindung mit dem Monde besonders die Genauigkeit der Längenbestimmungen aus Mondkulminationen, sowie auch der Parallaxenbestimmungen aus Zenitdistanzen erhöhen soll.

Die abgekürzte Ortsangabe der Mondsterne, welche für die Aufsuchung derselben hinreicht, wird als genügend betrachtet werden können, wenn man bedenkt, dafs der Hauptzweck der Mondsternangaben die Herbeiführung korrespondierender Beobachtungen derselben ist, dafs aber bei solchen die Örter dieser Sterne eliminiert werden, und dafs bei einem Mangel an korrespondierenden Beobachtungen entweder eine sehr sorgfältige und selbständige Diskussion der für die Mondposition zu Grunde zu legenden Sternörter oder deren Beziehung auf die Meridianbeobachtungen benachbarter Fundamentalsterne eintreten mufs.

Es enthalten auf diesen Seiten:

Die 1. Kolumne den Monatstag und die Bezeichnung des oberen oder unteren Berliner Meridiandurchganges des Mondes durch *O* und *U*.

Die 2. Kolumne die Mittl. Berl. Zeit des Meridiandurchganges des Mondes.

Die 3. Kolumne die Rektascension des Mondes zur Zeit der Kulmination.

Die 4. Kolumne die halbe Durchgangsdauer in Sternzeit berechnet mit Hülfe des geozentrischen Halbmessers des Mondes und der stündlichen Bewegung in AR.

Die 5. Kolumne die stündliche Bewegung in Rektascension einschliefslich der Veränderung des Halbmessers, hier für die besonderen Zwecke nicht auf eine Stunde mittlerer Zeit sondern auf das Zeitintervall bezogen, welches zwischen zwei der Epoche benachbarten Durchgängen des Mondes durch zwei um eine Stunde von einander abstehende Meridiane verfliefst.

Die 6. Kolumne die Deklination des Mondes zur Zeit der Kulmination.

Die 7. Kolumne die stündliche Bewegung in Deklination (auf dasselbe Intervall bezogen wie die Bewegung in AR.).

Die 8., 9., 10. Kolumne die Rektascension, Deklination und Gröfse der allgemein angenommenen Mondsterne oder Vergleichsterne des Mondes nach dem *Nautical Almanac*. Bei deren Auswahl ist das Prinzip befolgt, dafs von den jedesmal zu benutzenden 4 Sternen die beiden dem Monde folgenden am folgenden Tage als die beiden vorangehenden beobachtet werden. Es gehören also zu jeder oberen Kulmination (Berlin) die 4 aufeinanderfolgenden Sterne, deren erster auf gleicher Linie mit der Angabe des zugehörigen Monatstages steht.

Dieselben Seiten enthalten endlich unterhalb jener Kolumnen die Epochen des Perigäums und Apogäums des Mondes.

Von den Mondörtern ist nur eine geringe Anzahl für die Finsternisse direkt nach den *Tables de la lune, construites d'après le principe Newtonien de la gravité universelle par P. A. Hansen*, mit Berücksichtigung von *Newcombs Corrections to Hansens Tables of the Moon*, berechnet worden; für die Berechnung der Ephemeride ist dagegen die ausführliche Mondephemeride des *Nautical Almanac* benutzt worden, die der Redaktion infolge Übereinkommens mit der *Nautical Almanac Office* in den Aushängebogen zur Verfügung stand. Doch ist zu beachten, dafs für die Berechnung des Mondhalbmessers der von J. Peters ermittelte mittlere Wert 15′ 32″.59 angenommen ist.

## 4) Ephemeride für den Mondkrater Mösting A.

Die Ephemeride des Mondkraters Mösting A, Seite 82—86, dient zwei verschiedenen Zwecken: erstens zur genauen Bestimmung von Mondörtern am Himmel durch Meridianbeobachtung des Kraters, zweitens zur Bestimmung der selenographischen Koordinaten weiterer Punkte der Mondoberfläche durch deren mikrometrischen Anschlufs an Mösting A.

Sie gilt für die mittlere Mitternacht in Berlin und enthält für die Tage, an welchen Mösting A innerhalb der Beleuchtungsgrenze liegt, die Unterschiede $\alpha_☾ - \alpha_k$ in Rektascension und $\delta_☾ - \delta_k$ in Deklination zwischen der Mondmitte und dem Krater vom Erdmittelpunkt aus gesehen mit ihren Differenzen, sowie den Logarithmus des Sinus der Äquatorialhorizontal-Parallaxe $p_k$ des Kraters, welche von der des Mondes $p_☾$ zu unterscheiden ist, mit den zugehörigen Differenzen.

Zur Anwendung der Ephemeride auf Meridianbeobachtungen des Kraters interpoliere man unter strenger Berücksichtigung der zweiten Differenzen $\alpha_☾ - \alpha_k$, $\delta_☾ - \delta_k$ und $\log \sin p_k$ mit der Zeit des Durchgangs des Kraters durch den Meridian. Dann befreie man die beobachtete Deklination des Kraters von der Höhenparallaxe, indem man diese in der bekannten Weise mit dem Argument der wahren Kraterdeklination (nicht Monddeklination), unter Benutzung von $p_k$, berechnet. Bringt man alsdann

$\alpha_{☾} - \alpha_k$ und $\delta_{☾} - \delta_k$ an die Beobachtung an, so hat man die AR. und Dekl. des Mondes, wie sie vom Erdmittelpunkt aus beobachtet wären, für die Beobachtungszeit, d. h. für die Kulmination des Kraters (nicht des Mondes).

Für Beobachtungen aufserhalb des Meridians interpoliere man $\alpha_{☾} - \alpha_k$, $\delta_{☾} - \delta_k$ und $\log \sin p_k$ mit der Zeit der Beobachtung. Man findet dann die gesehene, mit Parallaxe behaftete Differenz $\alpha'_{☾} - \alpha'_k$ offenbar, indem man die mit $p_{☾}$ und dem Mondort berechnete Parallaxe $\alpha'_{☾} - \alpha_{☾}$ des Mondes in AR. zu $\alpha_{☾} - \alpha_k$ addiert und dann die mit $p_k$ und dem Kraterort berechnete Parallaxe $\alpha'_k - \alpha_k$ des Kraters in AR. subtrahiert. Es ist nämlich:

$$\alpha'_{☾} - \alpha'_k = \alpha_{☾} - \alpha_k + (\alpha'_{☾} - \alpha_{☾}) - (\alpha'_k - \alpha_k)$$

und ebenso

$$\delta'_{☾} - \delta'_k = \delta_{☾} - \delta_k + (\delta'_{☾} - \delta_{☾}) - (\delta'_k - \delta_k).$$

Verbindet man die so erhaltenen scheinbaren Abstände zwischen der Mondmitte und Mösting A mit mikrometrischen Messungen zwischen Mösting A und einem zweiten Krater, so erhält man die scheinbare Lage des letzteren gegen die Mondmitte und kann hieraus mit Hülfe von $\alpha'_{☾}$ und $\delta'_{☾}$, mit der auf Seite 87 angegebenen Lage des Mondäquators und der mit den Angaben auf Seite 454 berechneten physischen Mondlibration die selenographische Länge und Breite des zweiten Kraters berechnen. Hierzu dienen die im folgenden angeführten Formeln.

Bezeichnet man mit $\alpha'$ und $\delta'$ die scheinbare AR. und Dekl. des an Mösting A angeschlossenen Kraters, so hat man:

$$\begin{aligned}
s \sin \pi_m &= (\alpha' - \alpha'_{☾}) \cos \tfrac{1}{2} (\delta' + \delta'_{☾}) \\
s \cos \pi_m &= (\delta' - \delta'_{☾}) \\
\pi &= \pi_m - \tfrac{1}{2} (\alpha' - \alpha'_{☾}) \sin \tfrac{1}{2} (\delta' + \delta'_{☾}) \\
\sin (K + s) &= \sin s \operatorname{cosec} h'.
\end{aligned}$$

$h'$ ist der scheinbare Radiusvector des Kraters, der aus $h$, dem vom Erdmittelpunkt aus gesehenen Radiusvector, durch Anbringen der Parallaxe gewonnen wird. Ist die Entfernung des Kraters vom Mondschwerpunkt gänzlich unbekannt, so möge für $h$ der aus Sternbedeckungen folgende Wert des Mondhalbmessers eingesetzt werden.

$$\begin{aligned}
\sin d &= -\sin \delta'_{☾} \cos K + \cos \delta'_{☾} \sin K \cos \pi \\
\cos d \cos (a - \alpha'_{☾}) &= -\cos \delta'_{☾} \cos K - \sin \delta'_{☾} \sin K \cos \pi \\
\cos d \sin (a - \alpha'_{☾}) &= \sin K \sin \pi \\
\sin \beta &= \sin d \cos i - \cos d \sin i \sin (a - \Omega') \\
\cos \beta \sin \lambda' &= \sin d \sin i + \cos d \cos i \sin (a - \Omega') \\
\cos \beta \cos \lambda' &= \cos d \cos (a - \Omega').
\end{aligned}$$

Die Gröfsen $i$ und $\Omega'$ entnehme man der Seite 87.

$$\lambda = \lambda' - 180^\circ - L - (\Delta - \mho).$$

$L$, die mittlere Länge des Mondes, findet sich auf Seite 88, wie $\Delta - \mho$ auf Seite 87.

Die so erhaltenen Werte von $\lambda$ und $\beta$ beziehen sich auf den mittleren (vom Einflufs der physischen Libration freien) Mondäquator; die Transformation auf den wahren erfolgt durch die Korrektionen:

$$d\lambda = +12'' \sin M - 59'' \sin M' - 18'' \sin 2\omega$$
$$+ \operatorname{tg}\beta[-108'' \cos(\omega + \lambda) + 37'' \cos(\omega - \lambda) - 11'' \cos(M + \omega - \lambda)]$$
$$d\beta = +108'' \sin(\omega + \lambda) + 37'' \sin(\omega - \lambda) - 11'' \sin(M + \omega - \lambda).$$

Die Grössen $M$, $M'$, $\omega$ sind der Seite 454 zu entnehmen.

Bringt man diese Korrektionen $d\lambda$ und $d\beta$ an $\lambda$ und $\beta$ an, so erhält man die selenographischen Koordinaten des Kraters

$$\lambda_\circ = \lambda + d\lambda, \qquad \beta_\circ = \beta + d\beta.$$

Der Berechnung der Ephemeride des Kraters Mösting A liegen folgende von F. Hayn ermittelte Konstanten (Selenographische Koordinaten III, Seite 49) zugrunde:

$$\lambda_\circ = -5^\circ\, 10'\, 13'', \qquad \beta_\circ = -3^\circ\, 10'\, 58''$$
$$h = 15'\, 34''.71 \text{ entsprechend der Parallaxe } 57'\, 2''.27.$$

Für die Reduktion auf den mittleren Mondäquator wurden die Werte angenommen:

$$d\lambda = -12'' \sin M + 59'' \sin M' + 18'' \sin 2\omega$$
$$d\beta = -145'' \sin \omega + 11'' \sin(M + \omega)$$

so dafs die auf den mittleren Mondäquator bezogenen selenographischen Koordinaten des Kraters Mösting A sind:

$$\lambda = \lambda_\circ + d\lambda, \qquad \beta = \beta_\circ + d\beta.$$

## 5) Lage des Mondäquators. Mondbewegung.

Die beiden Tafeln auf Seite 87 und 88 dienen neben dem oben angegebenen Zweck zur Berechnung der optischen Libration des Mondes (in Verbindung mit der Tafel auf Seite 455 und 456) und zur Ermittelung des Winkels $C$, welchen der Mondmeridian des Mittelpunktes der scheinbaren Mondscheibe mit dem Deklinationskreise bildet.

Die Formeln für die Berechnung der optischen Libration sind auf Seite 456 vollständig aufgeführt. Der Winkel $C$ ergibt sich aus folgender Formel:

$$\sin C = -\sin i \frac{\cos(l + \Delta - ☊)}{\cos\delta} = -\sin i \frac{\cos(\alpha - ☊')}{\cos b'},$$

worin

$i$ . . . . die Neigung des Mondäquators gegen den Erdäquator,
$\Delta$ . . . das Stück des Mondäquators vom aufsteigenden Knoten im Erdäquator bis zum aufsteigenden Knoten in der Ekliptik,
☊′ . . . den aufsteigenden Knoten des Mondäquators im Erdäquator,
☊ . . . den aufsteigenden Knoten des Mondäquators in der Ekliptik,
$\alpha$, $\delta$ . . Rektascension und Deklination des Mittelpunktes der Mondscheibe, gesehen vom Beobachtungsort aus,
$l'$, $b'$ . . die optische Libration in selenographischer Länge und Breite,
$l_0$ . . . die mittlere Länge des Mondes

bezeichnen und $l = l' + l_0$ gesetzt wird.

$C$ wird vom nördlichen Teil des Deklinationskreises nach Osten positiv gerechnet.

Bei der Berechnung von $i$, $\Delta$, ☊′ ist die Neigung des Mondäquators gegen die Ekliptik nach F. Hayn (Selenographische Koordinaten III, Seite 49) zu $J = 1° 32' 6''$ angenommen worden. Die Angaben sind frei von physischer Libration.

Die in der ersten Kolumne der Tafel auf Seite 88 aufgeführte Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik dient auch zur Berechnung der Nutationsausdrücke.

## 6) Auf- und Untergang von Sonne und Mond für Berlin.

Auf Seite 89—93 sind die Zeiten der Auf- und Untergänge von Sonne und Mond für Berlin in mittlerer Berliner Zeit aufgeführt, welche als Grundlage für die Kalenderrechnungen benachbarter Orte häufig Verwendung finden.

## 7) Planetenephemeriden.

Von Seite 94—143 folgen die wahren geozentrischen Örter der Hauptplaneten. Dieselben sind für Merkur, Venus und Mars von Tag zu Tag, für Jupiter, Saturn, Uranus und Neptun von 2 zu 2 Tagen gegeben. Überall sind den mit der Beobachtung zu vergleichenden Angaben die ersten Differenzen beigefügt, die für eine genaue Interpolation zweckmäſsiger erscheinen als die Angabe der Bewegung in $1^h$ Länge.

Sämtliche geozentrische Koordinaten beziehen sich auf die jedesmalige wahre Lage des Äquators und des Äquinoktiums, sind aber frei von der *Aberratio fixarum*, so daſs man bei ihrer Vergleichung mit den Beobachtungen bekanntlich von den Beobachtungszeiten die jedesmalige Aberrations- oder Lichtzeit abziehen muſs, dann aber mit den so kor-

rigierten Epochen im Jahrbuche diejenigen wahren Richtungen findet, welche mit den beobachteten scheinbaren, nur von Parallaxe befreiten, direkt vergleichbar sind. Dieses Verfahren ist bis zu den Grenzen unseres Planetensystems ausreichend genau, da der Maximalfehler desselben nahezu 0".001 $\Delta$ beträgt, also selbst bei Neptun 0".03 nicht übersteigt.

Die »Log. $\Delta$« überschriebene Kolumne gibt den für Berechnung der Lichtzeit und der Parallaxe erforderlichen Wert des Log. der Entfernung der Planeten vom Erdmittelpunkte in der bekannten Einheit ausgedrückt.

Die vorletzte Kolumne jeder Seite enthält unter der Bezeichnung »Östlicher Stundenwinkel« des Planeten einen genäherten Wert für die mittlere Zeit seiner oberen Kulmination. Die letzte Kolumne gibt den halben Tagbogen für die im Berliner Mittag stattfindende Deklination. Aus beiden Reihen von Werten wird man alles Erforderliche für Auf- und Untergang leicht ableiten können.

Als Grundlage für die Berechnung haben neben den Newcombschen Sonnentafeln gedient:

für Merkur, Venus und Mars die Newcombschen Tafeln in *Astronomical Papers*, Vol. VI, Part 2, 3 und 4,

für Jupiter und Saturn die Tafeln von G. W. Hill in *Astronomical Papers*, Vol. VII, Part 1 und 2,

für Uranus und Neptun die Newcombschen Tafeln in *Astronomical Papers*, Vol. VII, Part 3 und 4.

Die Reduktionen auf den wahren Ort sind durchweg mit den im Jahrbuch allgemein angewandten Präzessions- und Nutationsausdrücken berechnet, über welche unten näheres folgt. Die von der Mondlänge abhängenden Nutationsglieder sind durchweg fortgelassen.

Für die Reduktion und die Vergleichung der Planetenbeobachtungen mit der Ephemeride ist die Kenntnis der scheinbaren Halbmesser erforderlich. Man kann für dieselben in der Einheit der Entfernung annehmen:

| | | | | |
|---|---|---|---|---|
| für | Merkur | Halbmesser | . . . . . | 3".34 |
| » | Venus | » | . . . . . | 8 .78 |
| » | Mars | » | . . . . . | 4 .68 |
| » | Jupiter | » | (Äquatorial) | 99 .8 |
| | | » | (Polar) . . | 92 .6 |
| » | Saturn | » | (Äquatorial) | 81 .4 |
| | | » | (Polar) . . | 73 .4 |
| » | Uranus | » | . . . . . | 34 .7 |
| » | Neptun | » | . . . . . | 45 |

## 8) Heliozentrische Örter.

Auf die geozentrischen Ephemeriden der Hauptplaneten folgen Seite 144—148 die heliozentrischen Koordinaten derselben, und zwar der Log. des Radius vector, die Länge in der Bahn und die Reduktion auf die Ekliptik, die Breite und bei den Planeten Jupiter, Saturn, Uranus und Neptun noch der Winkel $B_0$, welchen der Radius vector mit derjenigen Bahnebene macht, für welche die bei jedem Planeten unter den Kolumnen hinzugefügten Angaben über ☊ und $i$ gelten. (Siehe die ausführlichere Erläuterung im Jahrbuch für 1880 und 1881.)

Da diese heliozentrischen Koordinaten hauptsächlich zur Berechnung der speziellen Störungen dienen sollen, so ist die Genauigkeit und Ausführlichkeit ihrer Angaben dem ihrem Zweck entsprechenden Maſse angepaſst worden.

Hinzugefügt sind endlich auſser ☊ und $i$ noch die Angaben betreffend die Masse der Planeten, und zwar:

für Merkur, Venus und (Erde + Mond) nach Newcomb (*Tables of the Sun,* Seite 12),
für Mars nach A. Hall,
für Jupiter nach Newcomb,
für Saturn nach Bessel,
für Uranus nach Hill (*Tables of Saturn,* Seite 167),
für Neptun nach Newcomb (*Tables of Uranus*, Seite 293).

## 9) Mittlere Örter von 925 Fixsternen.

Die mittleren Sternörter für 1911.0 auf Seite 149 bis 175 sind aus dem Neuen Fundamentalkatalog des Berliner Astronomischen Jahrbuchs nach den Grundlagen von A. Auwers, für die Epochen 1875 und 1900 bearbeitet von Dr. J. Peters (Veröffentlichung des *Königlichen Astronomischen Recheninstituts* Nr. 33) mit den daselbst angegebenen Hülfsgröſsen für Präzession und Eigenbewegung abgeleitet worden. Nur die mittleren Örter der 20 nördlichen und südlichen Polsterne sind durch mechanische Quadratur berechnet.

## 10) Scheinbare Örter von 573 Fixsternen.

Die scheinbaren Örter der Sterne (Seite 176—375) sind für die 18 weniger als 10° von den Polen entfernten Sterne von Tag zu Tag, für die übrigen 555 Sterne von 10 zu 10 Tagen angegeben und beziehen sich auf die Epoche derjenigen oberen Kulmination im Berliner Meridian, welche an dem nebenstehenden wahren Sonnentage stattfindet. Der Übergang einer

Kulmination auf den vorangehenden wahren Sonnentag ist dadurch bezeichnet, dafs das Datum des Tages, an welchem zwei obere Kulminationen stattfinden, vor den Rektascensionen aufgeführt ist.

Am Fufs der Ephemeride für jeden Stern ist sein mittlerer Ort für den Anfang des Jahres wieder angegeben, aufser bei den Polsternen, für welche an dieser Stelle der Betrag der täglichen Aberration in Rektascension für die Kulminationszeit steht. Hierbei liegt der auch auf Seite 376 angegebene Zahlenwert $0^s.0213$ zu Grunde.

Bei den von 10 zu 10 Tagen fortschreitenden Ephemeriden sind die scheinbaren Örter auf $0^s.01$ in Rektascension und $0''.1$ in Deklination angesetzt. Die kurzperiodischen Mondglieder der Nutation sind bei der Berechnung weggelassen worden und müssen in den Fällen, wo ihre Mitnahme wünschenswert erscheint, nach den Formeln auf Seite 376 und mit Hülfe der Tafel auf Seite 388 u. 389 besonders berechnet werden.

Bei den von Tag zu Tag berechneten scheinbaren Örtern der 18 den Polen nächsten Sterne sind, im Einklange mit der Bedeutung der Hundertteile der Zeitsekunde für die Rektascensionen dieser Sterne, die Deklinationen auf Hundertteile der Bogensekunde angegeben; bei diesen Sternen sind auch die kurzperiodischen Mondglieder der Nutation angebracht, mit Ausnahme von $f'$.

Die der Berechnung der scheinbaren Örter zu Grunde gelegten Konstanten der Präzession, Nutation und Aberration entsprechen den Beschlüssen der Pariser Konferenz und sind aus der Formelübersicht Seite 376 zu ersehen. Man sehe hierüber auch den nächsten Abschnitt ein.

Der Betrag der jährlichen Parallaxe ist bei folgenden drei Sternen, bei denen diese ansehnlich und ihrem Werte nach hinreichend verbürgt ist, nämlich bei

| | | | | |
|---|---|---|---|---|
| $\alpha$ Canis maj. | mit | der | Parallaxe | $0''.38$ |
| $\alpha$ Lyrae | » | » | » | 0 .18 |
| 61 Cygni | » | » | » | 0 .3 |

bereits berücksichtigt. Der gegen die frühere Annahme geänderte Wert der Parallaxe von 61 Cygni beruht auf den »Untersuchungen über das Doppelsternsystem 61 Cygni von Östen Bergstrand.«

## 11) Reduktionstafeln.

Auf die scheinbaren Örter der Sterne folgt Seite 376 eine Zusammenstellung der Formeln, nach welchen die Reduktionskonstanten der darauf folgenden Tafeln berechnet sind. Hierbei sind die Präzessionsgröfsen nach Newcomb, die Nutationskonstante $9''.21$ und die Aberrationskonstante $20''.47$ gemäfs den Beschlüssen der Pariser Konferenz zu Grunde gelegt.

Für den Gebrauch der Reduktionstafel für die Sterntage 1911 (Seite 377) ist erläuternd hinzuzufügen, dafs derjenige absolute Moment, in welchem die mittlere Sonnenlänge 280° oder die Rektascension der mittleren Sonne = $18^h\ 40^m$ ist, als die Anfangsepoche des astronomischen annus fictus und als der bequeme Ausgangspunkt der Zählung aller scheinbaren Bewegungen der Sterne, die von der Sonnenlänge abhängig sind, angenommen ist. An diesen Moment reihen sich die Epochen der Tafel (Seite 377) nach Sterntagen. Die Sonne erreicht jene Stellung um $19^h\ 1^m.4$ Sternzeit Berlin 1911 Jan. 1. Die Angaben der ersten Kolumne »Datum in mittlerer Zeit« drücken, von dieser Anfangsepoche beginnend, in Hundertteilen des mittleren Tages von Berlin die Zeitpunkte aus, welche der Folge der Sternzeiten entsprechen, und für welche die Zahlen der Tafel gelten. Man wird hiernach auf jeden beliebigen Zeitpunkt, gegeben durch mittleres Datum, Sternzeit und Längendifferenz mit Berlin, leicht und sicher übergehen können.

Diese Tafel dient für Berechnung von Sternephemeriden für die Epochen der Meridiandurchgänge, ohne Berücksichtigung der von der Mondlänge abhängigen Nutationsglieder. Wegen ihrer logarithmischen Form ist sie zur Interpolation nicht geeignet. Man wird deshalb mit Vorteil die Interpolation erst nach der Summierung der einzelnen Korrektionen, welche unmittelbar für die Epochen der Tafeln berechnet werden können, eintreten lassen.

Die zweite Tafel (Seite 378—387) gibt nach den Anweisungen der Seite 376 für die mittlere Mitternacht Berlin die bekannten Konstanten zur Reduktion auf den scheinbaren Ort und zwar unter Weglassung der von der Mondlänge abhängigen Nutationsglieder, da diese Tafel überwiegend zu Reduktionen bei Vergleichungen von Beobachtungen mit Ephemeriden dienen soll. In der letzten Kolumne ist jedoch, um die Mondglieder in derselben Form hinzufügen zu können, unter dem Zeichen ☾ das Argument »mittlere Mondlänge« für die Tafeln der Seiten 388 und 389 angeführt, wobei die Peripherie in 1000 Teile geteilt gedacht ist.

Die Tafeln für die schnell veränderlichen Mondglieder der Nutation (Seite 388 und 389) enthalten die Hülfsmittel für die Reduktionen auf den scheinbaren Ort in derselben Form wie die vorangehenden beiden Tafeln.

Denselben liegen folgende Formeln zu Grunde:

$$A' = -0.00405 \sin 2☾ + 0.00134 \sin (☾ - 82^\circ\ 17')$$
$$B' = -0.0884 \cos 2☾$$

und

$$f' = -0''.1865 \sin 2☾ + 0''.0618 \sin (☾ - 82^\circ\ 17')$$
$$g' \sin G' = -0.0884 \cos 2☾$$
$$g' \cos G' = -0.0811 \sin 2☾ + 0.0269 \sin (☾ - 82^\circ\ 17').$$

Die hauptsächlichste Vernachlässigung dabei liegt in der für das ganze Jahr konstanten Annahme des für 1911.5 berechneten Perigäums der Mondbahn: $\Gamma' = 82^\circ\ 17'$.

In der Tafel Seite 390—399 sind die Mondglieder mit den Reduktionskonstanten vereinigt worden. Um den Gebrauch dieser Tafel zu erleichtern, sind jedesmal an derjenigen Stelle, wo die Werte einer der vier Konstanten *A*, *B*, *C*, *D* durch Null gehen, neben den logarithmischen Angaben die Numeri der betreffenden Konstante beigesetzt. Im übrigen gilt hinsichtlich der Einrichtung der Tafel dasselbe, was oben über den Gebrauch der Tafel Seite 377 gesagt wurde.

Die darauf folgende Tafel Seite 400 und 401, welche als notwendige Zugabe zu den Koordinatenangaben für den benachbarten Jahrzehntanfang dient, bedarf keiner besonderen Erläuterung.

## 12) Sonnen- und Mondfinsternisse.

Die Sonnenfinsternisse sind in der Form berechnet worden, welche Hansen (Theorie der Sonnenfinsternisse und verwandten Erscheinungen. Abhandlungen der K. Sächsischen Gesellschaft der Wissenschaften IV) der Behandlung dieses Problems gegeben hat.

Die Bezeichnungen und Einführungen von Hansen sind auch im Jahrbuch bei der tabellarischen Aufstellung der Rechnungsresultate durchgängig beibehalten worden, so dafs es genügen wird, zu ihrer Erläuterung auf die erwähnte Abhandlung zu verweisen (siehe besonders die übersichtliche Anführung der einzelnen Formeln von Seite 434 an).

Es wird hier nur erforderlich sein, in aller Kürze anzugeben, auf welche Weise man mit Hülfe der auf Seite 402 und 404 gegebenen Hansenschen Elemente der Sonnenfinsternisse Zeit und Umstände der Finsternis für jeden Ort innerhalb der Grenzkurven berechnen kann.

Der Ort sei gegeben durch seine (nach Osten gezählte) Länge von Berlin . . . $\lambda$, oder von Greenwich . . . $\lambda_0 = \lambda + 13^\circ\, 23'.7$ und durch seine geographische Breite $\varphi$.

Man bilde zuerst $\tang \varphi_1 = (1 - c) \tang \varphi$, wo $c$ die Abplattung der Erde ist, also $\log (1 - c) = 9.99855$ angenommen werden kann, sodann:

$$\xi = \cos \varphi_1$$
$$\eta = (1 - c) \sin \varphi_1.$$

Hierauf mufs man für die Epoche des fraglichen Phänomens, sei es nun erste und letzte äufsere oder innere Berührung oder gröfste Phase, einen Näherungswert der wahren Ortszeit annehmen.

Hierzu kann man die anderweitigen Angaben des Jahrbuchs, insbesondere die eventuelle Angabe der Epochen des Eintritts der gröfsten Phase auf der Zentrallinie zu Rate ziehen. Ein für die erste Annäherung hinreichender und bequemer Näherungswert der Ortszeit ist $\mu + \lambda$, wo $\mu$ die wahre Berliner Zeit der geozentrischen gröfsten Phase ist. (Siehe Elemente der Finsternis.)

Sei der Näherungswert der Ortszeit $t_\circ$, so bilde man mit Hülfe der in dem Elementenverzeichnis des Jahrbuchs gegebenen Werte von $\gamma$, $\mu$, $n$, $u'$, $f$, $\delta'$, $g$, $G$, $k$, $K$, welche man beiläufig mit dem Argumente der wahren Berliner Zeit $\tau = t_\circ - \lambda$ entnimmt, folgende Ausdrücke, welche als gemeinsame Grundlage der Annäherung für die Berechnung aller Phasen dienen können:

$$m \sin M = \gamma - \eta \cos g + \xi \sin g \sin (G + t_\circ)$$

$$m \cos M = (t_\circ - \lambda - \mu) \frac{n}{15} - \eta \cos k + \xi \sin k \cos (K + t_\circ)$$

$$m' \sin M' = -\varkappa \xi \sin g \cos (G + t_\circ)$$

$$m' \cos M' = n - \varkappa \xi \sin k \sin (K + t_\circ)$$

$$u_\circ = u' - (\eta \sin \delta' + \xi \cos \delta' \cos t_\circ) \operatorname{tang} f$$

wo $$\varkappa = \frac{15 \,.\, 3600}{206265} \qquad \lg \varkappa = 9.41797.$$

Bei der Entnahme von $u'$ und $f$ hat man für innere Berührungen $u'_i$ und $f_i$, für äufsere Berührungen $u'_a$ und $f_a$ zu wählen.

Hierauf berechnet man:

$$\sin \chi' = \frac{m}{u_\circ} \sin (M + M')$$

$$t = t_0 - 15 \frac{m}{m'} \cos (M + M') + 15 \frac{u_\circ}{m'} \cos \chi'$$

wobei man, da zu $\sin \chi'$ ein negativer und ein positiver Wert von $\cos \chi'$ sich ergibt, zwei Werte von $t$ (zur ersten oder letzten Berührung gehörig) findet.

Mit jedem dieser beiden Werte von $t$ rechnet man nun in zweiter Annäherung, wobei die Elemente $\gamma$, $\mu$, $n$, $u'$, $f$, $\delta'$, $g$, $G$, $k$, $K$ mit den wahren Berliner Zeiten $t - \lambda$ aus dem Elementenverzeichnis zu entnehmen sind:

$$m \sin M = \gamma - \eta \cos g + \xi \sin g \sin (G + t_\circ)$$

$$m \cos M = (t_\circ - \lambda - \mu) \frac{n}{15} - \eta \cos k + \xi \sin k \cos (K + t_\circ)$$

$$m' \sin M' = -\varkappa' \xi \sin g \cos [G + \tfrac{1}{2} (t_\circ + t)]$$

$$m' \cos M' = n - \varkappa' \xi \sin k \sin [K + \tfrac{1}{2} \; t_\circ + t)]$$

$$u = u_\circ + \varkappa' \xi \cos \delta' \operatorname{tang} f \sin \tfrac{1}{2} (t_\circ + t) \frac{(t - t_\circ)}{15}$$

wo $$\varkappa' = 30 \cdot \frac{\sin \frac{1}{2} (t - t_\circ)}{t - t_\circ};$$

$(t - t_\circ)$ ist hierbei stets in Graden auszudrücken.

Mit den so gefundenen $m$, $m'$, $M$, $M'$ und $u$ bildet man dann wieder

$$\sin \chi' = \frac{m}{u} \sin (M + M')$$

$$t = t_\circ - 15 \frac{m}{m'} \cos (M + M') + 15 \frac{u}{m'} \cos \chi'.$$

Von den beiden Lösungen für $t$ benutzt man bei der zweiten und den folgenden Näherungen für den Eintritt natürlich nur die zum Eintritt, ebenso bei den Näherungen für den Austritt die zum Austritt gehörige.

Die in zweiter oder dritter Näherung gefundenen Werte $t$ sind meistens schon genau genug die wahren Ortszeiten des gesuchten Eintritts oder Austritts, und die Positionswinkel der Eintritts- und Austrittspunkte (am Sonnenmittelpunkt von der Richtung zum Nordpol nach der Seite der wachsenden Rektascensionen oder nach Osten hin gezählt) sind mit den beiden Werten von $\chi'$, die der Sinus ergibt:

$$\vartheta = N' + M' - \chi',$$

wo $N'$ aus dem Elementenverzeichnis zu entnehmen ist.

Um die Zeit der gröfsten Phase zu berechnen, kann man zunächst die Werte $t_0$, $m$, $m'$, $M$, $M'$ aus der obigen ersten Annäherung benutzen und damit bilden:

$$t_1 = t_0 - 15 \frac{m}{m'} \cos(M + M').$$

Mit dem so gefundenen Werte $t_1$ bildet man für die Epoche $t_1 - \lambda$ wieder die Werte der Elemente und berechnet damit in zweiter Annäherung die Werte $m$, $m'$, $M$, $M'$, indem man in den Gleichungen der ersten Annäherung $t_0$ durchgängig mit $t_1$ vertauscht. Man hat dann den genaueren Wert der Ortszeit der gröfsten Phase:

$$t = t_1 - 15 \frac{m}{m'} \cos(M + M')$$

und zur Kontrolle für diese Zeit $M + M' = 90°$ oder $= 270°$, je nachdem der Mondmittelpunkt nördlich oder südlich vom Sonnenmittelpunkt vorbeigeht.

Zur Bestimmung der Gröfse der Verfinsterung hat man zugleich:

$$u = m,$$

welcher Wert bei zentraler Verfinsterung $= 0$ wird.

Die Gröfse in Teilen des Durchmessers $i$ findet man mit einer für diese rohe Angabe genügenden Näherung:

$$i = \frac{u'_a - u}{u'_a - u'_i} \cdot \cdot \cdot \cdot$$

## 13) Sternbedeckungen durch den Mond.

Bei den Sternbedeckungen findet man zunächst (Seite 406 und 407) ein Verzeichnis derjenigen helleren Sterne (bis zur 5.5. Gröfse), welche im Laufe des Jahres 1911 für irgend einen Ort der Erdoberfläche vom Monde bedeckt werden können. Die Gröfsenangaben der nicht in dem Verzeichnis der mittleren Sternörter des Jahrbuchs enthaltenen Sterne beruhen zum gröfsten Teil auf den Schätzungen von Argelander und Heifs, in einzelnen wenigen Fällen sind aufserdem für diese Angaben die Schätzungen Goulds benutzt; die mittleren Örter sind nach den Angaben verschiedener Kataloge mit Berücksichtigung der Eigenbewegung auf 1911.0 reduziert.

Hierauf folgen in den zweispaltigen Seiten 408—414 die Hülfsmittel zur Berechnung der einzelnen Bedeckungen:

in der 1. Kolumne die Nr. des Sterns, welcher bedeckt wird, nach dem voranstehenden Verzeichnisse;

in der 2. Kolumne die Zeit der geozentrischen Konjunktion in AR. von Stern und Mondmittelpunkt in Monatstagen, Stunden und Minuten;

in der 3., 4. und 5. Kolumne die Werte folgender Ausdrücke:

$$q = \frac{\delta - D}{\pi}, \qquad p' = \frac{\Delta\alpha \,.\, \cos\delta}{\pi}, \qquad q' = \frac{\Delta\delta}{\pi}$$

$p'$ und $q'$ in Einheiten der 4. Dezimale.

In diesen Ausdrücken bedeutet:

$\delta$ die geozentrische Deklination des Mondes für die geozentrische Konjunktionszeit $T$.

$D$ die Deklination des Sterns.

$\pi$ die Äquatorial-Horizontal-Parallaxe des Mondes (bezw. vermindert um die Parallaxe des Planeten bei Planetenbedeckungen) für die geozentrische Konjunktionszeit $T$.

$\Delta\alpha$ und $\Delta\delta$ die Veränderung der geozentrischen Rektascension und Deklination des Mondes (bezw. vermindert um die Veränderung des Planetenortes bei den Planetenbedeckungen), für eine Stunde mittlerer Zeit, gültig für die Konjunktionszeit $T$.

Nennt man ferner die geozentr. AR. des Mondes zur Zeit $T$ . . . $\alpha$, die AR. des Sterns . . . $A$, den geozentr. scheinbaren Halbmesser des Mondes . . . $r$, die Längendifferenz des Beobachtungsortes gegen Berlin . . . $d$ (östlich positiv), die der mittleren Zeit $T + d$ entsprechende Sternzeit des Ortes . . . $\mu$, seine geozentrische Breite . . . $\varphi'$, seinen geozentrischen Radius vector in Teilen des Radius des Äquators . . . $\varrho$; setzt man endlich (nach J. Peters *Astron. Nachr.* 3297)

$$\frac{r}{\pi} = k = 0.2725, \qquad \log k = 9.4354$$

$$\text{und } \log(15 \,.\, 3609.9 \sin 1'') = \log\lambda = 9.41916\,,$$

so wird die Aufgabe der Vorausberechnung der Ortszeit etc. für die betreffende Bedeckung in Verbindung mit den obigen in den Tafeln gegebenen Werten gelöst durch die Bildung folgender Ausdrücke und die Ausführung folgender Rechnungen (nach Bessels Näherungsformeln im Jahrbuch für 1831):

$$p = \frac{(\alpha - A)\cos\delta}{\pi} \quad (= 0 \text{ für das Zeitmoment } T)$$

$$u = \varrho\cos\varphi'\sin(\mu - A)$$

$$v = \varrho\sin\varphi'\cos D - \varrho\cos\varphi'\cos(\mu - A)\sin D$$

$$u' = \lambda \varrho \cos \varphi' \cos (\mu - A) \qquad = \left(\frac{du}{dt}\right)$$

$$v' = \lambda \varrho \cos \varphi' \sin (\mu - A) \sin D \qquad = \left(\frac{dv}{dt}\right)$$

$$m \sin M = p - u \qquad n \sin N = p' - u'$$

$$m \cos M = q - v \qquad n \cos N = q' - v'$$

($m$ und $n$ stets positiv)

$$\tau = -\frac{m}{n} \cos (M - N).$$

Die Momente des Eintritts und des Austritts $T_1$ und $T_2$ des Sterns werden dann gefunden, wenn noch $\cos \psi = \frac{m \sin (M - N)}{k}$ (wo $\psi$ immer kleiner als 180°) berechnet ist:

$$T_1 = T + d + \tau - \frac{k}{n} \sin \psi \qquad T_2 = T + d + \tau + \frac{k}{n} \sin \psi.$$

Die Örter des Eintritts und Austritts an der Mondscheibe in dem auf Seite [16] erläuterten Positionswinkel-Ausdruck sind:

$$Q_1 = N - 90^\circ + \psi \qquad Q_2 = N - 90^\circ - \psi.$$

Die so gefundenen Resultate werden indes von der Wahrheit sehr entfernt sein können, wenn die Korrektion $\tau$, welche zu der Ortszeit der geozentrischen Konjunktion hinzugefügt werden mufs, um die Ortszeit des auf den Beobachtungsort bezüglichen kleinsten Abstandes des Sterns vom Mondmittelpunkt zu finden, sehr beträchtlich ist; mit anderen Worten, wenn an dem betreffenden Ort zur Zeit $T + d$ der Stundenwinkel des Mondes grofs ist. In diesem Falle nämlich ist hauptsächlich die Berechnung der der Zeit folgenden Veränderungen von $u$ und $v$ durch die ersten Differentialquotienten $u'$ und $v'$ bei der starken Änderung des Winkels $(\mu - A)$ nicht mehr genügend, sondern man mufs jetzt die zweite Näherung ausführen, indem man für die Ortszeit $T + d + \tau$ oder die Berliner Zeit $T + \tau = T_0$ berechnet:

$$p_0 = \tau p' \qquad q_0 = q + \tau q' \qquad \mu_0 = \mu + \tau + \varepsilon \qquad t = \mu_0 - A$$

(wo $\varepsilon$ die Reduktion des mittleren Zeitintervalles $\tau$ auf Sternzeit bedeutet)

$$u = \varrho \cos \varphi' \sin t$$

$$v = \varrho \sin \varphi' \cos D - \varrho \cos \varphi' \sin D \cos t$$

$$u' = \lambda \varrho \cos \varphi' \cos t$$

$$v' = \lambda \varrho \cos \varphi' \sin D \sin t.$$

Berechnet man mit diesen Werten

$$\Delta\tau = -\frac{m}{n} \cos (M - N),$$

so wird diese Näherung schon ziemlich ausreichend sein, um die Zeiten und Örter des Eintritts und Austritts zu finden, wie oben:

$$\cos\psi = \frac{m\sin(M-N)}{k}$$

$$T_1 = T + d + \tau + \Delta\tau - \frac{k}{n}\sin\psi \text{ u. s. w.}$$

Bei der Berechnung der ersten Näherung, welche $\tau$ ergibt, wird es aber nicht nötig sein, nach den ausführlichen Formeln bis

$$\tau = -\frac{m}{n}\cos(M-N)$$

zu rechnen, sondern man wird eine wesentliche Abkürzung und eine hinreichende Konvergenz der Näherung erreichen, wenn man setzt:

$$\tau = \frac{u}{p' - u'} \;\cdot\cdot\cdot\cdot\cdot$$

Wenn man hier noch statt des jedesmaligen, in den Elementen der Sternbedeckungen angegebenen $p'$ den Durchschnittswert 0.5646 annimmt, läſst sich der Ausdruck

$$\tau = \frac{\varrho\cos\varphi'\sin(\mu - A)}{0.5646 - \lambda\varrho\cos\varphi'\cos(\mu - A)}$$

für eine bestimmte Polhöhe $\varphi'$ sehr leicht mit dem Argumente des Stundenwinkels $(\mu - A)$ in eine Hülfstafel bringen, aus der man ohne Mühe den zur ersten Näherung hinreichenden Wert von $\tau$ bei westlichem Stundenwinkel positiv, bei östlichem negativ entnimmt.

Um für jeden Ort die erste Korrektion $\tau$ in Minuten ausgedrückt zu finden, kann die Tafel Seite [20] mit dem Horizontalargument »$\varphi'$« und dem Vertikalargument »Stundenwinkel« dienen. Zur genäherten Bildung des letzteren Argumentes werden die Kolumnen der Mondephemeride, welche »Mond im Meridian« überschrieben sind, von Nutzen sein können.

Für Orte, die nicht zu weit von Berlin entfernt sind, wird man aus dem für Berlin gegebenen Verzeichnis häufig schon ersehen können, ob eine Sternbedeckung stattfindet oder nicht; für näher gelegene Orte dürfte es in diesem Falle schon genügen, wenn man an die für Berlin gegebenen Zeiten des Ein- und Austritts nur die Längendifferenz anbringt. Wenn nämlich die Sehne vom Punkte des Eintritts zu dem des Austritts dem Mondmittelpunkt nahe liegt, so müſste der Unterschied der Parallaxe für Berlin und den anderen Ort schon nahe den Betrag des Mondhalbmessers erreichen, wenn dort die Sternbedeckung nicht sichtbar sein sollte; für nahe liegende Orte sind die Wirkungen kleiner Unterschiede der Parallaxen gerade in diesem Falle sehr gering.

Um allgemein für irgend einen Ort, dessen östliche Länge $d$ und dessen geozentrische Breite $\varphi'$ näherungsweise bekannt sind, im voraus zu bestimmen, welche Sternbedeckungen sichtbar werden, hat man nach den im Jahrbuch gegebenen Elementen folgendes zu beachten:

$\varphi'$

| $t$ | 0° | 8° | 16° | 24° | 32° | 40° | 48° | 56° | 64° | 72° | $t$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| h m | m | m | m | m | m | m | m | m | m | m | h m |
| 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |
| 20 | 17 | 17 | 16 | 15 | 13 | 11 | 9 | 7 | 5 | 3 | 20 |
| 40 | 34 | 33 | 32 | 29 | 26 | 22 | 18 | 14 | 10 | 7 | 40 |
| 1 0 | 50 | 49 | 47 | 43 | 38 | 32 | 26 | 21 | 15 | 10 | 1 0 |
| 20 | 65 | 63 | 60 | 55 | 49 | 42 | 34 | 27 | 20 | 13 | 20 |
| 40 | 78 | 76 | 73 | 67 | 59 | 51 | 42 | 33 | 24 | 16 | 40 |
| 2 0 | 89 | 88 | 84 | 77 | 68 | 59 | 49 | 38 | 28 | 19 | 2 0 |
| 20 | 98 | 97 | 93 | 85 | 76 | 66 | 55 | 43 | 32 | 21 | 20 |
| 40 | 106 | 105 | 100 | 93 | 83 | 72 | 60 | 48 | 36 | 24 | 40 |
| 3 0 | 112 | 110 | 106 | 98 | 89 | 77 | 65 | 52 | 39 | 26 | 3 0 |
| 20 | 116 | 115 | 110 | 102 | 93 | 81 | 68 | 55 | 41 | 28 | 20 |
| 40 | 119 | 117 | 113 | 105 | 96 | 84 | 71 | 57 | 43 | 29 | 40 |
| 4 0 | 120 | 119 | 114 | 107 | 97 | 86 | 73 | 59 | 45 | 31 | 4 0 |
| 20 | 120 | 118 | 114 | 107 | 98 | 87 | 74 | 61 | 46 | 32 | 20 |
| 40 | 119 | 117 | 113 | 107 | 98 | 87 | 75 | 61 | 47 | 33 | 40 |
| 5 0 | 117 | 115 | 112 | 106 | 97 | 87 | 75 | 62 | 48 | 33 | 5 0 |
| 20 | 114 | 113 | 109 | 103 | 95 | 86 | 74 | 62 | 48 | 33 | 20 |
| 40 | 110 | 109 | 106 | 101 | 93 | 84 | 73 | 61 | 47 | 33 | 40 |
| 6 0 | 106 | 105 | 102 | 97 | 90 | 82 | 71 | 60 | 47 | 33 | 6 0 |
| 20 | 102 | 101 | 98 | 93 | 87 | 79 | 69 | 58 | 46 | 32 | 20 |
| 40 | | 96 | 93 | 89 | 83 | 76 | 67 | 56 | 44 | 32 | 40 |
| 7 0 | | | 88 | 84 | 79 | 72 | 64 | 54 | 43 | 31 | 7 0 |
| 20 | | | 83 | 80 | 75 | 68 | 61 | 51 | 41 | 30 | 20 |
| 40 | | | | 75 | 70 | 64 | 57 | 49 | 39 | 28 | 40 |
| 8 0 | | | | | 65 | 60 | 53 | 46 | 37 | 27 | 8 0 |
| 20 | | | | | | 55 | 49 | 42 | 34 | 25 | 20 |
| 40 | | | | | | | 45 | 39 | 32 | 23 | 40 |
| 9 0 | | | | | | | 41 | 36 | 29 | 21 | 9 0 |
| 20 | | | | | | | | 32 | 26 | 19 | 20 |
| 40 | | | | | | | | 28 | 23 | 17 | 40 |
| 10 0 | | | | | | | | 24 | 20 | 15 | 10 0 |
| 20 | | | | | | | | | 17 | 12 | 20 |
| 40 | | | | | | | | | 13 | 10 | 40 |
| 11 0 | | | | | | | | | 10 | 7 | 11 0 |
| 20 | | | | | | | | | 7 | 5 | 20 |
| 40 | | | | | | | | | | 3 | 40 |
| 12 0 | | | | | | | | | | 0 | 12 0 |

Nach den Angaben der Mondephemeride kennt man die Zeiten des Meridiandurchganges des Mondes ($M$), seine Deklination ($\delta$) und die Deklination der Sonne. Nachdem man dann ($T + d$) gebildet, wird man mit Hülfe einer Tafel der halben Tagbögen (wie sie in den Handbüchern der Nautik für alle Breiten sich berechnet finden) meist sogleich entscheiden können:

1) Ob Eintritt und Austritt nach Sonnenuntergang und Mondaufgang oder vor Sonnenaufgang und Monduntergang stattfinden. Auf die Vergröfserung des Tagbogens durch die Bewegung des Mondes und auf dessen Parallaxe ist vorläufig hierbei keine Rücksicht geboten, da deren Wirkungen in ihren mittleren Werten mittelst der Tafel Seite [20] durch $\tau$ berücksichtigt werden.

Aus vorstehender Tafel, in welcher $\tau$ das Zeichen des Stundenwinkels hat, erhält man sogleich mit $\varphi'$ und $T + d - M$ einen Näherungswert für $\tau$ und hiermit den genäherteren Stundenwinkel $t = T + d - M + \tau$ und $q_0 = q + \tau q'$. Einen genäherten Wert von $v$ erhält man durch Berechnung von

$$\sin(\varphi' - D) + \cos\varphi' \sin D\,(1 - \cos t)\ ^{*)}.$$

2) Ist nun $q_0 - v < k$ ($k = 0.27$), so findet in der Regel eine Bedeckung statt, im entgegengesetzten Falle nicht. Da aber $\tau$ zuerst nur annäherungsweise bekannt ist, so mufs, wenn $q_0 - v$ dem Werte von $k$ nur nahe kommt, eine ausführlichere Berechnung angestellt werden.

In vielen Fällen dieser Art genügen indes schon einige weitere Betrachtungen zur Entscheidung, ob der aus der Tafel entnommene Wert von $\tau$ dem wahren Werte von $\tau$ sehr nahe kommt, gröfser oder kleiner ist. Man wird nämlich leicht entscheiden können, ob $(q' - v')$ sehr klein, positiv oder negativ wird, das Zeichen von $(q_0 - v)$ ist in den erwähnten zweifelhaften Fällen sehr bestimmt zu erkennen. Der Wert von $u$ hängt für eine bestimmte Breite des Ortes nur von $\sin t$ ab und kann nie gröfser als $\cos\varphi'$ werden. — Hiernach gilt folgende Regel:

3) Sind $(q_0 - v)$ und $(q' - v')$ gleichnamig (beide positiv oder beide negativ), so mufs $p_0 - u = \tau p' - u$ negativ, sind jene ungleichnamig, so mufs $\tau p' - u$ positiv, ist $(q' - v')$ sehr klein (also das Vorzeichen noch unbestimmt), so mufs $\tau p'$ nahe gleich $u$ werden, wonach man den Tafelwert von $\tau$ sogleich um ein oder ein paar Zehntel der Stunde im richtigen Sinne verbessern kann.

Seite 415 enthält die Vorausberechnung der Sternbedeckungen für Berlin.

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*) Um für einen Ort eine allgemeine, für diesen Zweck genügende Tafel der $v$ zu bilden, hat man höchstens 5 Werte von $\sin(\varphi' - D)$ und 2 Werte von $\cos\varphi' \sin D$ auf 2 oder 3 Stellen zu berechnen.

## 14) Jupiterstrabanten.

Auf die Sternbedeckungen folgen Seite 416—421 die Erscheinungen der vier älteren Jupiterstrabanten, und zwar für sämtliche Trabanten zunächst die Angaben, aus denen man ihren Ort, wie sie vom Mittelpunkte der Erde aus gesehen zu einer beliebigen Zeit in Bezug auf den Mittelpunkt der Jupiterscheibe erscheinen, herleiten kann; sodann die Zeitangaben für die Verfinsterungen der Trabanten in dem Schattenkegel des Jupiter, welche von ihrem Stande gegen die Sonne abhängen. Bei den Verfinsterungen ist für die beiden inneren Trabanten die Zeit des Ein- oder Austritts, für die beiden äufseren Trabanten die Mitte der Verfinsterung und ihre halbe Dauer angegeben, alles in mittlerer Berliner Zeit und so, wie man die Erscheinung unmittelbar beobachten kann.

Für den geozentrischen Ort ist die Zeit der jedesmaligen scheinbaren oberen Konjunktion des Trabanten mit der Erde, oder die Zeit, wann Jupiter sich in einer auf die Ebene der Trabantenbahn senkrecht gelegten Ebene zwischen der Erde und dem Trabanten befindet, angesetzt. Für jeden Trabanten sind in den Jahrbüchern bis zum Jahrgang 1871 Hülfstafeln gegeben, welche für die mittlere synodische Umlaufszeit die Abscissen und Ordinaten des Ortes des Trabanten in seiner als kreisförmig angenommenen Bahn ergeben. Die Achse der Abscissen liegt senkrecht auf der Konjunktionsebene, beide Koordinaten natürlich in der Ebene der Trabantenbahn und ihr Anfangspunkt im Mittelpunkte der Jupiterscheibe. Die Einheit, in welcher die Koordinaten ausgedrückt sind, ist der Halbmesser des Jupiter. Die kreisförmige Bahn wird sich der Erde als eine Ellipse darstellen, deren kleine Achse in der Konjunktionsebene liegt, so dafs die Abscissen ungeändert bleiben, die Ordinaten aber in dem Verhältnis der halben kleinen zur halben grofsen Achse vermindert werden müssen. Dieses Verhältnis, und zwar $\frac{b}{a}$, ist neben den Zeiten der oberen Konjunktion angesetzt. Wünscht man nun für eine Zeit $T$, welche zwischen zwei auf einander folgende Zeiten $t$ und $t'$ der oberen Konjunktion fällt, den Ort des Trabanten zu haben, so geht man mit dem Argument

$$T - t$$

in die Hülfstafeln ein, nimmt daraus die entsprechenden Werte von $x$ und $y'$, und hat damit in Halbmessern des Jupiter den Stand des Trabanten in Bezug auf den Mittelpunkt des Jupiter gegeben durch

$$x \text{ und } y = y'\frac{b}{a},$$

wobei man die Zeichen von $x$, $y'$ und $\frac{b}{a}$ zu berücksichtigen hat. Das Zeichen der letzten Gröfse deutet an, welche Fläche der Trabantenbahn

man sieht, ob die obere (nördliche, dem Nordpole der Ekliptik zugewandte bei positivem $\frac{b}{a}$), oder die untere (südliche).

Die Zeichen von $x$ und $y$ sind so gewählt, dafs für Berlin zur Zeit der Kulmination der Trabant für den Anblick im Fernrohre bei positivem $x$ rechts, bei negativem $x$ links vom Jupiter erscheint; bei positivem $y$ ist er nördlich und beim negativen $y$ südlich von einer Linie, welche mit den Streifen parallel durch das Zentrum des Jupiter gezogen werden kann.

Man könnte hier mit Leichtigkeit noch eine kleine Korrektion anbringen, wenn die Zwischenzeiten zweier auf einander folgenden oberen Konjunktionen beträchtlich von der mittleren synodischen Umlaufszeit verschieden wären. Wäre die letztere $T'$, so würde man mit dem Argument

$$(T-t)\frac{T'}{t'-t}$$

eingehen müssen. Ebenso findet man die Vorübergänge der Trabanten vor der Jupiterscheibe durch die Zeiten der unteren Konjunktion, das Mittel aus den oberen, und die Ein- und Austritte der Trabanten in die Jupiterscheibe durch die Zeiten, zu denen

$$\sqrt{x^2+y^2} = 1,$$

wobei man von der elliptischen Gestalt des Jupiter absieht. Indessen sind diese letzteren Momente nur als beiläufige Näherungen zu betrachten, da für diese feineren und genaueren Bestimmungen die Tafeln sich nicht einfach genug einrichten liefsen, und aus gleichem Grunde wird die ersterwähnte Verbesserung wegen des Unterschiedes zwischen der wahren und mittleren synodischen Umlaufszeit unnötig sein.

Statt auf die in den früheren Jahrbüchern gegebenen Elongationstafeln zurückzugreifen, kann man auch leicht die Koordinaten der Trabanten aus den folgenden Formeln berechnen:

$$\left.\begin{array}{l} x = (0.7559)\sin[203^\circ.40\,.\,t] \\ y' = (0.7559)\cos[203^\circ.40\,.\,t] \end{array}\right\}\text{ Trabant I.}$$

$$\left.\begin{array}{l} x = (0.9576)\sin[101^\circ.29\,.\,t] \\ y' = (0.9576)\cos[101^\circ.29\,.\,t] \end{array}\right\}\text{ Trabant II.}$$

$$\left.\begin{array}{l} x = (1.16017)\sin[50^\circ.235\,.\,t] \\ y' = (1.16017)\cos[50^\circ.235\,.\,t] \end{array}\right\}\text{ Trabant III.}$$

$$\left.\begin{array}{l} x = (1.40552)\sin[21^\circ.488\,.\,t] \\ y' = (1.40552)\cos[21^\circ.488\,.\,t] \end{array}\right\}\text{ Trabant IV.}$$

wo $t$ die seit der letzt vorangehenden oberen Konjunktion verflossene Zeit bezeichnet, ausgedrückt in Tagen, und wo die eingeklammerten Zahlen

Logarithmen bedeuten. Die zu Grunde gelegten Werte der mittleren Entfernungen vom Jupiterszentrum (in Halbmessern der Jupiterscheibe) und die synodischen Umlaufszeiten sind beziehungsweise:

| | | | |
|---|---|---|---|
| Trabant | I. | 5.70 | $1^d\ 18^h\ 28^m.6$ |
| » | II. | 9.07 | 3 13 17 .9 |
| » | III. | 14.46 | 7 3 59 .6 |
| » | IV. | 25.44 | 16 18 5 .1 |

Die Angaben für die Jupiterstrabanten sind nach den Tafeln von Damoiseau und deren Fortsetzung von Pottier berechnet.

Über die Verbesserungen, deren die Damoiseauschen Tafeln und die danach berechneten Verfinsterungen der Trabanten bedürftig sind, ist in dem Jahrbuche für 1880 näheres an dieser Stelle mitgeteilt worden.

## 15) Saturnsring.

Auf den Seiten 422 und 423 stehen die Angaben für die scheinbare Gröfse des Saturn und für die Lage und Gröfse des Saturnsringes, deren Bedeutung folgende ist:

$\alpha$ Grofse Achse des Saturn.

$\beta$ Scheinbare kleine Achse des Saturn.

$p_a$ Phase; positiv, wenn der Ostrand, negativ, wenn der Westrand verdunkelt ist.

$a$ Grofse Achse der Ringellipse.

$b$ Kleine Achse der Ringellipse; positiv, wenn die nördliche, negativ, wenn die südliche Fläche des Ringes sichtbar ist

$U'$ Heliozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes in der Ekliptik an.

$B'$ Erhöhungswinkel der Sonne über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

$P'$ Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Breitenkreise; östlich positiv, westlich negativ.

$U$ Geozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes im Erdäquator an.

$B$ Erhöhungswinkel der Erde über der Ringebene vom Saturn aus gesehen; nördlich positiv, westlich negativ.

$P$ Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Deklinationskreise; östlich positiv, westlich negativ.

| | 1911 März 24 | Juli 30 | Dez. 5 |
|---|---|---|---|
| $\mathcal{N}$ Aufsteigender Knoten der Ringebene im Erdäquator, gezählt vom Äquinoktium an | 126° 51.5 | 126° 52.4 | 126° 53.2 |
| $J$ Neigung der Ringebene gegen den Erdäquator | 6 52.8 | 6 52.7 | 6 52.6 |
| $\omega$ Entfernung der Ekliptik vom Erdäquator, gemessen auf der Ringebene | 42 33.0 | 42 32.4 | 42 31.8 |

Es liegen folgende Bestimmungen nach Struve zugrunde:

Durchmesser des Saturn in der Entfernung 9.53887

Äquatorial 17″.47

Polar 15 .65

Lage des Saturnsringes gegen die Ekliptik und das Äquinoktium von 1889.25

$$\Omega_1 = 167° \, 57'.0 \quad \text{und} \quad i_1 = 28° \, 5'.6;$$

Durchmesser des Ringes in der Entfernung 9.53887

$$2\,R = 39''.35.$$

Will man statt der Struveschen Werte für die Durchmesser des Saturn diejenigen Werte, welche Bessel in Band 12 der *Astron. Nachr.* abgeleitet hat, verwenden, nämlich:

den Äquatorialdurchmesser = 17″.053

den Polardurchmesser = 15 .381

in der Entfernung, deren Logarithmus = 0.9796480,

so braucht man die Gröfsen $\alpha$ und $\beta$ der Ephemeride nur mit den Zahlen

0.9761 bezüglich 0.9828

zu multiplizieren.

## 16) Saturnstrabanten.

Die Seiten 424 bis 451 enthalten die Angaben über die Saturnstrabanten. Alle Berechnungen für dieselben sind mit den von H. Struve in:

I. Beobachtungen der Saturnstrabanten, 1. Abteilung, 1. Supplementheft zu den »*Observations de Poulkova*«;

II. *Publications de l'Observatoire Central Nicolas*, Série II, Vol. XI, abgeleiteten und in folgendem kurz angeführten Elementen durchgeführt. Einzelne Verbesserungen zu den Elementen hat Herr Prof. H. Struve handschriftlich mitgeteilt. Für die Halbachsen der 6 inneren Trabanten sind die auf Seite 239 der zweiten Abhandlung mittels der Saturnsmasse $\mu = \frac{1}{3500}$ rechnerisch abgeleiteten Werte angenommen.

**Mimas**
(II, Seite 195).

Epoche: 1889 April 0.0 mittl. Gr. Zt.

$E_0 = 127^\circ\ 19'.0$
$n = 381^\circ.9945$
$\delta l = -44^\circ.243 \sin(116^\circ.46 + 5^\circ.075\, t)$
$\quad - 0^\circ.75 \sin 3\,(116^\circ.46 + 5^\circ.075\, t)$
$l_1 = E_0 + nt_d + \delta l$
$\Theta = 54^\circ.7 - 365^\circ.3\, t$
$\gamma = 1^\circ\ 36'.5$
$\Pi_1 = 107^\circ.2 + 365^\circ.3\, t$
$e = 0.0190$
$a = 26''.814$

**Enceladus**
(II, Seite 183).

Epoche: 1889 April 0.0 mittl. Gr. Zt.

$E_0 = 199^\circ\ 19'.8$
$n = 262^\circ.73199$
$\delta l = +\ 11'.24 \sin(143^\circ + 92^\circ.4\, t)$
$\quad + 20'.0 \sin(75^\circ + 29^\circ.3\, t)$
$l_1 = E_0 + nt_d + \delta l$
$\Theta = 328^\circ - 152^\circ.7\, t$
$\gamma = 1'.4$
$\Pi_1 = 308^\circ.38 + 123^\circ.43\, t$
$e = 0.0046$
$a = 34''.401$

**Tethys**
(II, Seite 195).

Epoche: 1889 April 0.0 mittl. Gr. Zt.

$E_0 = 284^\circ\ 31'.0$
$n = 190^\circ.69795$
$\delta l = +118'.90 \sin(116^\circ.46 + 5^\circ.075\, t)$
$\quad + 2'.02 \sin 3\,(116^\circ.46 + 5^\circ.075\, t)$
$l_1 = E_0 + nt_d + \delta l$
$\Theta = 110^\circ.55 - 72^\circ.5\, t$
$\gamma = 1^\circ\ 4'.36$
$e = 0.0000$
$a = 42''.586$

**Dione**
(II, Seite 183).

Epoche: 1889 April 0.0 mittl. Gr. Zt.

$E_0 = 253^\circ\ 51'.4$
$n = 131^\circ.534955$
$\delta l = -\ 1'.21 \sin(143^\circ + 92^\circ.4\, t)$
$\quad - 2'.13 \sin(75^\circ + 29^\circ.3\, t)$
$l_1 = E_0 + nt_d + \delta l$
$\Theta = 276^\circ - 31^\circ.0\, t$
$\gamma = 4'.0$
$\Pi_1 = 165^\circ + 31^\circ.0\, t$
$e = 0.0020$
$a = 54''.543$

**Rhea**
(II, Seite 176).

Epoche: 1889 April 0.0 mittl. Greenw. Zeit.

$E_0 = 358^\circ\ 23'.8$
$n = 79^\circ.690087$
$E - E_0 = +\ 4'.95 \sin(347^\circ.3 - 10^\circ.1\, t)$
$l = E_0 + nt_d + (E - E_0)$
$(\Omega - \Omega_1) \sin i_1 = 19'.77 \sin(347^\circ.3 - 10^\circ.1\, t) - 0'.38$
$\quad + 1'.00 \sin(48^\circ.5 - 0^\circ.50\, t)$
$i - i_1 = 19'.77 \cos(347^\circ.3 - 10^\circ.1\, t) - 2'.79 + 1'.00 \cos(48^\circ.5 - 0^\circ.50\, t)$
$\Pi = 305^\circ + 10^\circ.1\, t$
$e = 0.0009$
$a = 76''.170$

$\Omega_1$ und $i_1$ bezeichnen die Lage des Saturnsringes.

### Titan

(II, Seite 172).

Epoche: 1890 Jan. 0.0 mittl. Greenw. Zeit.

$$E_\circ = 260^\circ\ 25'.1$$
$$n = 22^\circ.577009$$
$$E - E_\circ = +\ 4'.05 \sin(47^\circ.8 - 0^\circ.51\ t)$$
$$l = E_\circ + n t_d + (E - E_\circ)$$
$$\Omega = 167^\circ\ 51'.2 + 35'.84 \sin(47^\circ.8 - 0^\circ.506\ t) + 0'.837\ t$$
$$i = 27^\circ\ 28'.4 + 16'.88 \cos(47^\circ.8 - 0^\circ.506\ t)$$
$$\Pi = 276^\circ\ 15' + 31'.7\ t + 22'.0 (\sin 2g - \sin 2g_\circ)$$
$$e = 0.02886 + 0.000186 (\cos 2g_\circ - \cos 2g)$$
$$g = \Pi - \Omega - 4^\circ.5$$
$$g_\circ = g \text{ für } t = 0$$
$$a = 176''.578$$

### Hyperion

(II, Seite 290).

Epoche: 1890 Jan. 0.0 mittl. Greenw. Zeit.

$$E_\circ = 304^\circ.53$$
$$n = 16^\circ.919983$$
$$\delta l = 9^\circ.16 \sin(200^\circ.5 + 0^\circ.56206\ t_d)$$
$$l = E_\circ + n\,.\,t_d + \delta l$$

Äquinoktium: 1890.0. Epoche: 1890.0 + $t$.

$$\Omega = 167^\circ\ 49'.7 + 42'.4 \sin(47^\circ.8 - 0^\circ.50\ t) + 78'.1 \sin(121^\circ.7 - 2^\circ.0\ t)$$
$$i = 27^\circ\ 20'.8 + 19'.6 \cos(47^\circ.8 - 0^\circ.50\ t) + 36'.2 \cos(121^\circ.7 - 2^\circ.0\ t)$$

Epoche und Äquinoktium: 1888.890 + $t$.

$$\Pi = 276^\circ.50 - 18^\circ.663\ t + 14^\circ.0 \sin(-0^\circ.84 + 19^\circ.191\ t) - 1^\circ.5 \sin(-1^\circ.68 + 38^\circ.382\ t)$$
$$e = 0.1043 + 0.0230 \cos(-0^\circ.84 + 19^\circ.191\ t) + \delta e$$
$$e\delta e = -0.00044 \cos(200^\circ.5 + 0^\circ.56206\ t_d)$$
$$a = 213''.92 + \delta a$$
$$\delta a = -0.00354\ a \cos(200^\circ.5 + 0^\circ.56206\ t_d)$$

### Japetus

(I, Seite 87; II, Seite 139).

Epoche: 1885 Sept. 1.0 mittl. Greenw. Zeit.

$$E_\circ = 75^\circ\ 26'.4$$
$$n = 4^\circ.537997$$
$$l = E_\circ + n\,.\,t_d$$
$$\Omega = 142^\circ\ 12'.4 - 1'.48\ t$$
$$i = 18^\circ\ 28'.3 - 0'.54\ t$$
$$\Pi = 354^\circ\ 30' + 7'.9\ t$$
$$e = 0.02836 + 0.000015\ t$$
$$a = 514''.59$$

$l_1, l$ = Mittlere Länge in der Bahn
$n$ = Tropische mittlere tägliche Bewegung
$\delta l$ = Libration
$t_d$ = Anzahl der Tage seit der Anfangsepoche
$t$ = Anzahl der Jahre seit der Anfangsepoche
$\Theta$ = Knoten auf dem Saturnsäquator
$\Omega$ = Knoten auf der Ekliptik
$\gamma$ = Neigung der Trabantenbahn gegen den Saturnsäquator
$i$ = Neigung der Trabantenbahn gegen die Ekliptik
$\Pi_1, \Pi$ = Perisaturnium
$e$ = Exzentrizität
$a$ = Halbachse der Trabantenbahn in der mittleren Entfernung $(\varrho) = 9.53887$

$l_1$, $\Pi_1$ und $\Theta$ werden gezählt vom Äquinoktium aus in der Ekliptik, weiter im Saturnsäquator und dann erst in der Trabantenbahn, $l$ und $\Pi$ vom Äquinoktium aus in der Ekliptik und weiter in der Trabantenbahn.

Zunächst sind für die fünf inneren Trabanten auf den Seiten 424 bis 434 die Hülfsmittel gegeben, um in bequemer Weise ihre Positionen ableiten zu können. Sieht man hierbei von den Neigungen $\gamma$ ab, so erhält man die rechtwinkeligen Koordinaten $x$ und $y$ des Trabanten in bezug auf ein Achsenkreuz, dessen Anfangspunkt im Mittelpunkt des Saturn gelegen ist, dessen $X$-Achse parallel der grofsen Achse des Ringes verläuft, positiv wenn östlich, negativ wenn westlich vom Saturn, und dessen positive $Y$-Achse mit dem durch den Saturnsmittelpunkt gehenden Deklinationskreise den Winkel $P$ einschliefst, aus den Gleichungen:

$$x = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin(u-U)$$

$$y = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin B \cos(u-U).$$

Die Gröfsen $U$ und $B$ sind Seite 423 zu entnehmen. $(\varrho) = 9.53887$ bezeichnet den mittleren Wert der Entfernung Sonne—Saturn, $\varrho$ ist die Entfernung Erde—Saturn, $u = L + (v - M)$ ist die wahre Länge des Trabanten vom Erdäquator an gezählt.

Ist genaueste Ortsbestimmung erforderlich, so darf man bei Mimas, Tethys und Rhea die Neigungen gegen den Saturnsäquator, da sie schon merklichere Werte annehmen, nicht mehr vernachlässigen; $x$ und $y$ ergeben sich dann aus:

$$x = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin(u-U)$$

$$y = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin B [\cos(u-U) + \sin\gamma \operatorname{cotg} B \sin(u-\vartheta)];$$

hierin bezeichnet $\vartheta$ die Länge des aufsteigenden Knotens der Trabantenbahn

auf dem Saturnsäquator, gezählt vom Schnittpunkte des Saturnsäquators mit dem Erdäquator; $\vartheta$ ergibt sich aus:

$$\vartheta = \Theta - \Omega_{\mathrm{I}} + \omega$$

$$\text{für Tethys ist } \frac{r}{a} = 1.$$

Will man aus $x$ und $y$ noch Rektascensions- und Deklinationsdifferenzen bestimmen, so dienen dazu die Gleichungen:

$$s \sin (p - P) = x$$

$$s \cos (p - P) = y$$

$$\Delta\alpha = \alpha_{tr} - \alpha_{pl} = \frac{1}{15} s \sin p \sec \delta_{tr}$$

$$\Delta\delta = \delta_{tr} - \delta_{pl} = s \cos p.$$

Auf den Seiten 435 bis 443 finden sich für die drei äufseren Trabanten Titan, Hyperion und Japetus, aufser den Hülfsgröfsen $U$, $B$ und $P$ die Rektascensions- und Deklinationsunterschiede gegen den Saturn in dem Sinne Trabant minus Planet. Die aus den Angaben des Berliner Jahrbuchs ermittelten Trabantenörter sind wahre.

Zum Schlufs enthalten die Seiten 444—451 die Zeitangaben für die östlichen und westlichen Elongationen der Saturnstrabanten, für die oberen und unteren Konjunktionen von Japetus mit Saturn und für die im Jahre 1911 stattfindenden Verfinsterungen der Trabanten.

Die Berechnung der Verfinsterungen ist nur genähert durchgeführt. Die Hauptvernachlässigung besteht darin, dafs für die Bildung des vom Saturn ausgehenden Kernschattens die Kugelgestalt des Planeten angenommen wurde.

Die Zeitangaben für die Elongationen, Konjunktionen und Verfinsterungen sind bereits für Aberration korrigiert, also ohne weiteres mit den Beobachtungen vergleichbar.

## 17) Konstellationen.

In der Übersicht der Konstellationen des Jahres 1911 (Seite 452 und 453) sind die hauptsächlichsten Planeten-Konstellationen gegeneinander und gegen Sonne, Mond und die Sterne 1. und 2. Gröfse, sowie die Angaben der Epochen, zu welchen sich die Planeten in gewissen Hauptpunkten ihrer Bahn und ihres synodischen Laufes befinden, zusammengestellt. Die Bedeckungen der Planeten und der helleren Fixsterne (bis 2. Gröfse) durch den Mond auf der Erde überhaupt sind hier ebenfalls nochmals mit aufgeführt. — Die Konjunktionen der Planeten mit dem Mond und untereinander sind als Konjunktionen in AR. zu verstehen. Letztere sind nur insoweit berücksichtigt als die Differenz der Deklinationen beider Planeten den Betrag von 3° nicht übersteigt. Die

Epochen der gröfsten Helligkeit der Venus sind nach derjenigen Formel für die Lichtstärke, welche G. Müller in der *Publikation des Astrophys. Observatoriums zu Potsdam*, Bd. VIII, Seite 197 ff. gegeben hat, berechnet.

Als Abkürzungen sind in dieser Übersicht folgende gebraucht:

| | | |
|---|---|---|
| ♈ Widder. | ☉ Sonne. | |
| ♉ Stier. | ☾ Mond. | |
| ♊ Zwillinge. | ☿ Merkur. | ☌ Konjunktion. |
| ♋ Krebs. | ♀ Venus. | □ Quadratur. |
| ♌ Löwe. | ♁ Erde. | ☍ Opposition. |
| ♍ Jungfrau. | ♂ Mars. | |
| ♎ Wage. | ♃ Jupiter. | ☊ Aufsteigender } Knoten. |
| ♏ Skorpion. | ♄ Saturn. | ☋ Niedersteigender } Knoten. |
| ♐ Schütze. | ♅ Uranus. | |
| ♑ Steinbock. | ♆ Neptun. | |
| ♒ Wassermann. | | |
| ♓ Fische. | | |

## 18) Hülfstafeln.

Es folgt eine Reihe von häufig gebrauchten Hülfstafeln.

1) Die Tafel zur Berechnung der physischen Mondlibration (Seite 454). Die zur Berechnung der physischen Mondlibration dienenden Ausdrücke sind auf Seite 454 vollständig gegeben. Sie beruhen auf der Annahme $f = 0.75$, worüber F. Hayn (Selenographische Koordinaten III, Seite 49) einzusehen ist.

2) Die Tafel zur Berechnung der optischen Mondlibration (Seite 455 und 456) reproduziert (mit $J = 1° 32' 6''$ berechnet) die bekannte Enckesche Tafel (Berl. Jahrb. 1843); sie gestattet in Verbindung mit den Angaben der Seite 88 die rasche Berechnung der optischen Libration in selenographischer Länge und Breite nach den Formeln, die auf Seite 456 vollständig aufgeführt sind. Hierbei scheint die Kenntnis der wahren Längen und Breiten des Mondes notwendig zu sein, welche im Jahrbuch vermifst werden; indessen werden die Längen und Breiten zu diesem Zweck mit merklichem Vorteil aus der mit Hinzufügung der Parallaxe berechneten AR. und Dekl. abgeleitet, wozu man sich der gewöhnlichen Umwandlungsformeln oder, wenn nicht gröfsere Genauigkeit erfordert wird, der Enckeschen Hülfstafel in der Veröffentlichung Nr. 14 des Recheninstituts bedienen kann.

3) Eine Tafel mit Angabe der Bruchteile des tropischen Jahres, die den nebenstehenden mittleren Daten ($0^h$ Mittl. Zeit Berlin) entsprechen. (Seite 457 und 458.)

4) Eine Tafel für die Ermittelung eines Datums in der julianischen Periode. (Seite 459 und 460.)

5) Die Hülfstafeln zur Verwandlung von mittlerer Zeit und Sternzeit (Seite 461 und 462).

6) Eine Tafel zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt (Seite 463 und 464).

7) Eine Tafel mit Angabe der Hülfsgröfsen zur Berechnung der Präzession von den hauptsächlichsten Sternkatalog-Epochen bis 1911.0 (Seite 465).

8) Eine Tafel mit Angabe der Hülfsgröfsen zur Übertragung mittlerer Polsternörter von verschiedenen Äquinoktien auf 1911.0 (Seite 466).

## 19) Koordinaten der Sternwarten.

Die Seiten 467 bis 473 enthalten die geographischen und geozentrischen Koordinaten der Sternwarten.

Die Seehöhen sind in allen Fällen angegeben worden, wo sie sich einigermafsen sicher ermitteln liefsen; zumeist sind sie dem Verzeichnis von Prof. Auwers im *Geographischen Jahrbuch* entnommen worden; bei der Berechnung von log $\varrho$ sind sie berücksichtigt.

Die geozentrischen Koordinaten sind nach den Besselschen Erddimensionen berechnet.

Die Kolumne »Korrektion der Sternzeit« enthält für jeden Ort die Differenz: Sternzeit im mittleren Mittag minus Sternzeit im mittleren Berliner Mittag.

Das Verzeichnis hat im vorliegenden Jahrgang Änderungen bezw. Zusätze für die Lage folgender Sternwarten erfahren:

| | | |
|---|---|---|
| Cincinnati (Neue Stw.) | nach | *Publications of the Cincinnati Observatory* 1908 Nr. 16, S. 31. |
| Madison | » | brieflicher Mitteilung. |
| Mare Island Calif. | » | *Publications of the Astronom. Society of the Pacific* Vol. XX, S. 238. |
| Mt. Wilson Calif. | » | *Publications of the Astronom. Society of the Pacific* Vol. XIX, S. 103. |
| Mundenheim | » | *Astronom. Nachrichten* 177, S. 139. |

## 20) Bahnelemente der kleinen Planeten.

Die Seiten (2)—(36) enthalten die Bahnelemente der kleinen Planeten nach den neuesten der Redaktion bekannt gewordenen Bestimmungen. Die unmittelbar den Namen folgenden Kolumnen geben auch das Datum der Opposition im Jahre 1909 und die Gröfse zur Zeit derselben.

Ferner sind gegeben zwei Kolumnen $m_0$ und $g$, welche zur Berechnung der Gröfse des Planeten dienen. Es bedeutet $m_0$ die mittlere Gröfse, d. h. diejenige Gröfse, welche der Planet in seiner mittleren Entfernung $a$ von der Sonne und der gleichzeitigen Entfernung $a - 1$ von der Erde haben würde; ferner ist $g$ eine Gröfse, welche aus $m_0$ nach der Formel

$$g = m_0 - 5 . \log a (a - 1)$$

berechnet ist, und welche dazu dient, für einen beliebigen geozentrischen Ort des Planeten seine Gröfsenklasse $M$ zu berechnen. Ist $\Delta$ die Entfernung des Planeten von der Erde, $r$ seine Entfernung von der Sonne, so ist seine Gröfse

$$M = g + 5 (\log \Delta + \log r).$$

## 21) Oppositionsdaten der kleinen Planeten.

Von den 480 im Jahre 1909 und zu Anfang des Jahres 1910 stattfindenden Oppositionen der kleinen Planeten (1)—(635) und (654) ist Seite (37)—(48) eine übersichtliche Zusammenstellung, nach der Oppositionszeit geordnet, gegeben. In diesem Verzeichnisse ist neben dem Namen des Planeten der Tag der Opposition in AR., die Gröfse, der genäherte geozentrische Ort, die tägliche Bewegung an jenem Tage, der Logarithmus der Entfernung des Planeten von der Erde und aufserdem das Jahr, in welchem der Planet zum letzten Male beobachtet wurde, angegeben.

Für 35 Planeten, welche in dem Oppositionsverzeichnis durch ein Sternchen (*) bezeichnet sind, enthalten die Seiten (49)—(83) ausführliche Ephemeriden; für etwa 60 weitere Planeten, deren Beobachtung im Jahre 1909 erwünscht erscheint, sind genäherte Oppositionsephemeriden in den Veröffentlichungen des Recheninstitutes Nr. 36 und 37 gegeben.

## 22) Ausführliche Oppositionsephemeriden.

Diese Ephemeriden, Seite (49)—(83), die neben der Erleichterung der Beobachtungen einer künftigen Theorie der entsprechenden Planeten zur Grundlage dienen sollen, sind zum gröfsten Teil im Recheninstitut berechnet, zum Teil von den unterzeichneten Herren der Redaktion gütigst zur Verfügung gestellt worden. Für die Lichtzeit ist hierbei angenommen: $498^s.4$.

## 23) Nachweisungen über die kleinen Planeten.

Das die Nachweisungen über die kleinen Planeten enthaltende Verzeichnis, Seite (84)-(112), gibt in zwei Abschnitten eine Übersicht der Stellen in den verbreitetsten Publikationsmitteln, wo A. Beobachtungen,

B. Berechnungen in bezug auf die kleinen Planeten sich vorfinden. Das Nähere ist aus dem Verzeichnisse selbst unmittelbar zu ersehen. — Die Übersicht umfafst Band 176, S. 33 bis Band 179, S. 32 einschl. der *Astronomischen Nachrichten* (bezeichnet mit A. N.), das *Bulletin Astronomique* Band 24, S. 337 bis Band 25, S. 368 (bezeichnet mit B. A.), das *Astronomical Journal* Band 25, S. 185 bis Band 26, S. 38 (bezeichnet mit A. J.), und die *Monthly Notices* Band 68 (bezeichnet mit M. N.). Die angenommenen Grenzen dieser Übersicht entsprechen den Zeitgrenzen der Publikation 1907 Okt. 1 bis 1908 Okt. 1.

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## Zur Statistik der kleinen Planeten im Jahre 1908.

Seit dem Erscheinen des letzten Jahrbuches sind bis Ende Dezember 1908 folgende 24 neue Planeten entdeckt, bezw. als solche erkannt worden, welche zu der Gruppe zwischen Erde und Jupiter gehören:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 636 | *XP* | entdeckt | 1907 | Febr. 8 | von | Metcalf, Taunton, Mass. (636–638) | |
| 637 | *YE* | » | » | März 11 | » | | |
| 638 | *ZQ* | » | » | Mai 5 | » | | |
| 639 | *ZT* | » | » | Juli 19 | » | Lohnert | Königstuhl (639–651) |
| 640 | *ZW* | » | » | Aug. 29 | » | Kopff | |
| 641 | *ZX* | » | » | Sept. 8 | » | Wolf | |
| 642 | *ZY* | » | » | Sept. 8 | » | Wolf | |
| 643 | *ZZ* | » | » | Sept. 8 | » | Kopff (643–651) | |
| 644 | *AA* | » | » | Sept. 7 | » | | |
| 645 | *AB* | » | » | Sept. 11 | » | | |
| 646 | *AC* | » | » | Sept. 11 | » | | |
| 647 | *AD* | » | » | Sept. 11 | » | | |
| 648 | *AE* | » | » | Sept. 11 | » | | |
| 649 | *AF* | » | » | Sept. 11 | » | | |
| 650 | *AM* | » | » | Okt. 4 | » | | |
| 651 | *AN* | » | » | Okt. 4 | » | | |
| 652 | Jubilatrix | » | » | Nov. 4 | » | Palisa, Wien | |
| 653 | *BK* | » | » | Nov. 27 | » | Metcalf, Taunton, Mass. | |
| 654 | Zelinda | » | 1908 | Jan. 4 | » | Kopff (654–658) | Königstuhl. (654–659) |
| 655 | *BS* | » | » | Jan. 12 | » | | |
| 656 | *BU* | » | » | Jan. 22 | » | | |
| 657 | *BV* | » | » | Jan. 23 | » | | |
| 658 | *BW* | » | » | Jan. 23 | » | | |
| 659 | *CS* | » | » | März 23 | » | Wolf | |

Aufser den genannten sind noch über 90 bisher anscheinend unbekannte Planeten gefunden, für welche zum Teil Bahnberechnungen wegen unzureichenden Beobachtungsmaterials nicht ausführbar, zum Teil die Rechnungen noch nicht abgeschlossen sind.

Unter den 659 jetzt bekannten kleinen Planeten sind im gegenwärtigen Zeitpunkte (Anfang März 1909), soviel der Redaktion bekannt geworden ist,

431 Planeten, welche in mindestens 4 Oppositionen beobachtet sind, nämlich die Planeten (1) bis (389) mit Ausnahme von (99), (132), (155), (157), (188), (193), (220), (272), (280), (281), (285), (290), (293), (294), (296), (299), (307), (309), (310), (315), (316), (319), (320), (323), (327), (328), (330), (353), (355), (357), (361), (368) und (370) und aufserdem:

| | | | |
|---|---|---|---|
| (391) Ingeborg | (423) Diotima | (454) Mathesis | (504) Cora |
| (393) Lampetia | (424) Gratia | (455) Bruchsalia | (505) Cava |
| (394) Arduina | (425) Cornelia | (456) Abnoba | (507) Laodica |
| (397) Vienna | (426) Hippo | (458) Hercynia | (508) Princetonia |
| (401) Ottilia | (429) Lotis | (470) Kilia | (509) Iolanda |
| (402) Chloë | (432) Pythia | (471) Papagena | (510) Mabella |
| (403) Cyane | (433) Eros | (472) Roma | (511) Davida |
| (404) Arsinoë | (434) Hungaria | (475) Ocllo | (514) Armida |
| (405) Thia | (435) Ella | (477) Italia | (516) Amherstia |
| (407) Arachne | (439) Ohio | (478) Tergeste | (521) Brixia |
| (409) Aspasia | (441) Bathilde | (481) Emita | (526) Jena |
| (411) Xanthe | (442) Eichsfeldia | (482) Petrina | (530) Turandot |
| (412) Elisabetha | (443) Photographica | (483) Seppina | (532) Herculina |
| (415) Palatia | (444) Gyptis | (484) Pittsburghia | (537) Pauly |
| (416) Vaticana | (446) Aeternitas | (485) Genua | (542) Susanna |
| (417) Suevia | (447) Valentine | (487) Venetia | (544) Jetta |
| (419) Aurelia | (449) Hamburga | (491) Carina | (554) Peraga |
| (420) Bertholda | (451) Patientia | (498) Tokio | (562) Salome |
| (421) Zähringia | (453) Tea | (500) Selinur | |

52 Planeten, welche in 3 Oppositionen beobachtet sind, nämlich:

| | | | | | |
|---|---|---|---|---|---|
| (157) Dejanira | 26 | (398) Admete | 12 | (445) Edna | 8 |
| (188) Menippe | 25 | (399) Persephone | 12 | (450) Brigitta | 8 |
| (272) Antonia | 17 | (406) Erna | 11 | (460) Scania | 7 |
| (281) Lucretia | 15 | (410) Chloris | 11 | (462) Eriphyla | 7 |
| (294) Felicia | 16 | (418) Alemannia | 10 | (476) Hedwig | 6 |
| (299) Thora | 14 | (422) Berolina | 9 | (480) Hansa | 6 |
| (307) Nike | 15 | (427) Galene | 10 | *(488) Kreusa | 6 |
| (328) Gudrun | 14 | (431) Nephele | 10 | (490) Veritas | 6 |
| (361) Bononia | 14 | (437) Rhodia | 8 | (501) Urhixidur | 6 |
| (370) Modestia | 12 | (438) Zeuxo | 8 | (502) Sigune | 5 |
| (390) Alma | 12 | (440) Theodora | 8 | (503) Evelyn | 5 |

| | | |
|---|---|---|
| (506) Marion . . 5 | (536) Merapi . . 4 | (578) . . . . . . 3 |
| (513) Centesima . 5 | (541) Deborah . . 4 | (579) . . . . . . 3 |
| (520) Franziska . 5 | (543) Charlotte . 4 | (583) Klotilde . . 3 |
| (523) Ada . . . . 5 | (550) Senta . . . 4 | (589) . . . . . . 3 |
| (524) Fidelio . . 4 | (556) Phyllis . . 4 | (600) . . . . . . 3 |
| *(528) Rezia . . . 5 | (559) Nanon . . 4 | (617) Patroclus . 3 |
| (535) Montague . 4 | | |

63 Planeten, welche nur in 2 Oppositionen beobachtet sind, nämlich:

| | | |
|---|---|---|
| (280) Philia . . . 17 | (534) Nassovia . . 4 | (582) . . . . . . 3 |
| (296) Phaëtusa . . 13 | (538) Friederike . 4 | (585) . . . . . . 3 |
| (319) Leona . . . 15 | (539) Pamina . . 4 | (587) . . . . . . 3 |
| (320) Katharina . 15 | (540) Rosamunde 4 | (588) Achilles . . 3 |
| (327) Columbia . 14 | (545) Messalina . 4 | (592) . . . . . . 3 |
| (355) Gabriella . 13 | (546) Herodias . 4 | (596) . . . . . . 3 |
| (395) Delia . . . 12 | (547) Praxedis . . 4 | (599) . . . . . . 3 |
| (408) Fama . . . 11 | (548) Kressida . . 4 | (601) . . . . . . 3 |
| (414) Liriope . . 12 | (549) Jessonda . 4 | (609) . . . . . . 3 |
| (436) Patricia . . 9 | (551) Ortrud . . . 4 | (611) . . . . . . 2 |
| (465) Alekto . . . 7 | (552) Sigelinde . 4 | (620) . . . . . . 2 |
| (466) Tisiphone . 7 | (557) Violetta . . 4 | (622) . . . . . . 2 |
| (468) Lina . . . . 7 | (558) Carmen . . 4 | (624) Hektor . . 2 |
| (469) Argentina . 7 | (563) Suleika . . 3 | (636) . . . . . . 2 |
| (479) Caprera . . 6 | (566) Stereoskopia 4 | (638) . . . . . . 2 |
| (492) Gismonda . 6 | (568) Cheruskia . 3 | (639) . . . . . . 2 |
| (494) Virtus . . . 6 | (569) Misa . . . . 3 | (642) . . . . . . 2 |
| (495) Eulalia . . . 5 | (570) . . . . . . 3 | (643) . . . . . . 2 |
| (517) Edith . . . 5 | (573) . . . . . . 3 | (648) . . . . . . 2 |
| (527) Euryanthe . 4 | (577) . . . . . . 3 | (651) . . . . . . 2 |
| (533) Sara . . . . 4 | (581) Tauntonia . 3 | (652) . . . . . . 2 |

106 Planeten, welche bisher nur in 1 Opposition beobachtet sind, nämlich:

| | | |
|---|---|---|
| (99) Dike . . . . 33 | (353) Ruperto-C. . 13 | (463) Lola . . . . 7 |
| (132) Aethra . . . 28 | (357) Ninina . . . 14 | (464) Megaira . . 7 |
| (155) Scylla . . . 27 | (368) Haidea . . 13 | (467) Laura . . . 7 |
| (193) Ambrosia . 23 | (392) Wilhelmina 12 | (473) Nolli . . . . 7 |
| (220) Stephania . 20 | (396) Aeolia . . . 12 | (474) Prudentia . 6 |
| (285) Regina . . 16 | (400) Ducrosa . . 12 | (486) Cremona . . 5 |
| (290) Bruna . . . 14 | (413) Edburga . . 11 | (489) Comacina . 6 |
| (293) Brasilia . . 15 | (428) Monachia . 9 | (493) Griseldis . . 6 |
| (309) Fraternitas . 14 | (430) Hybris . . . 9 | (496) Gryphia . . 5 |
| (310) Margarita . 14 | (448) Natalie . . 8 | (497) Iva . . . . 5 |
| (315) Constantia . 13 | (452) Hamiltonia . 8 | (499) Venusia . . 6 |
| (316) Goberta . . 15 | (457) Alleghenia . 7 | (512) Taurinensis 5 |
| (323) Brucia . . . 12 | (459) Signe . . . 7 | (515) Athalia . . 5 |
| (330) Adalberta . 12 | (461) Saskia . . 7 | (518) Halawe . . 5 |

| | | | | | |
|---|---|---|---|---|---|
| (519) Sylvania | 5 | (593) | 3 | (623) | 2 |
| *(522) Helga | 5 | (594) | 3 | (625) | 2 |
| (525) Adelaide | 5 | (595) | 3 | (626) | 2 |
| *(529) Preziosa | 4 | (597) | 3 | (627) | 2 |
| (531) Zerlina | 4 | (598) | 3 | (628) | 2 |
| (553) Kundry | 3 | (602) Marianna | 3 | (629) | 2 |
| (555) Norma | 4 | (603) | 3 | (630) | 2 |
| (560) Delila | 4 | (604) | 3 | (631) | 2 |
| (561) Ingwelde | 4 | (605) | 3 | (632) | 2 |
| (564) Dudu | 3 | (606) | 2 | (633) | 2 |
| (565) Marbachia | 3 | (607) | 2 | (634) | 2 |
| (567) Eleutheria | 4 | (608) | 2 | (635) | 2 |
| (571) | 3 | (610) | 2 | (637) | 2 |
| (572) | 3 | (612) | 2 | (640) | 2 |
| (574) | 3 | (613) | 2 | (641) | 2 |
| (575) | 3 | (614) | 2 | (644) | 2 |
| (576) Emanuela | 3 | (615) | 2 | *(645) Admete | 3 |
| (580) | 3 | (616) | 2 | (646) | 2 |
| (584) | 3 | (618) | 2 | (647) | 2 |
| (586) | 3 | (619) | 2 | (649) | 2 |
| (590) | 3 | (621) | 2 | (650) | 2 |
| (591) | 3 | | | | |

und aufserdem die Planeten (653) — (659), deren zweite auf die Entdeckungserscheinung folgende Opposition noch bevorsteht.

In den vorstehenden Angaben bezeichnen die hinter den Planetennamen befindlichen Ziffern die Anzahl der bisher, mit Einschlufs der Entdeckungserscheinung, stattgefundenen Oppositionen. Von den mit einem * bezeichneten Planeten sind nachträglich noch ältere vor der Entdeckungszeit liegende hier nicht berücksichtigte Beobachtungen aufgefunden. Der Planet (645) ist identisch mit (398) Admete.



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